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UNIVAC PROGRAMS FOR THE SOLUTION OF ONE-DIMENSIONAL
MULTIGROUP REACTOR EQUATIONS

by

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HISTORY AND ACKNOWLEDGMENTS

These programs have a long history, dating back to the publications of R. Ehrlich and H. Hurwitz, Jr. on the development of multigroup methods applied to neutron diffusion problems.*

J. H. Alexander, H. Greenspan, and D. Okrent, working from the procedures originated at KAPL, developed an IBM CPC spherical geometry program which, using a specified fission source distribution, computed the fluxes and from these the succeeding source distribution.

Subsequently, a spherical program was prepared and coded for the AVIDAC by E. C. Jutzi, L. E. Sommerfeld and M. Butler with the assistance of J. F. Hall. This program, using a procedure suggested by D. A. Flanders, iterates between flux and fission source distribution until satisfactory convergence is obtained and then varies the core composition to achieve criticality. Because of the memory and tape handling limitations of the AVIDAC, it was decided to program future multigroup computations for the UNIVAC. As a consequence, the six programs described in this report were done.

D. A. Flanders and J. M. Cook are responsible for adapting and extending the multigroup procedures originated at KAPL to these programs, and the computations have been programmed and coded for the UNIVAC by H. L. Gray, E. C. Jutzi, and L. E. Sommerfeld working under J. F. Hall and M. Butler. Assistance in the physical background of the problems was provided by R. Avery and D. Okrent.

J. M. Cook is the author of Section V, "Description of Mathematical Method."

*For example, R. Ehrlich and H. Hurwitz, Jr., "Multigroup Methods for Neutron Diffusion Problems," *Nucleonics* 12, No. 2, p. 23, 1954.

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ABSTRACT

Six UNIVAC programs are described in detail. The programs were designed to compute, by a finite difference method, the real and adjoint solutions of the multigroup diffusion equation system in cylindrical, spherical and slab geometry.

Contingent upon the complexity of the problem, the machine computation time ranged from a few minutes to more than an hour, with a cumulative average of about 15 to 20 minutes.

I. INTRODUCTION

The purpose of this report is to present, in detail, UNIVAC programs for the solution of general one-dimensional, multigroup reactor problems. These programs are identified as follows:

Geometry	Real	Adjoint
Cylinder	RE-6	RE-26
Sphere	RE-7	RE-27
Slab	RE-8	RE-28

Given certain problem parameters - such as boundaries of the regions, energy group divisions, material composition of the regions, the respective cross sections, and initial approximations to the critical composition and fission source terms - these programs solve the diffusion equation system by iteration, printing the critical composition, fluxes and fission source terms for each lattice point, integrals of fluxes and fission source terms for each region, and the leakage from each region.

The reactor is divided into L regions, $1 \leq L \leq 10$. The distance to the outer boundary of region ℓ is designated as b_ℓ , the distance to the inner boundary as $b_{\ell-1}$, ($b_0 = 0$). The initial C regions form the core.

Each region ℓ of the reactor is divided into H_ℓ intervals of equal thickness, $\Delta \ell r$ or $\Delta \ell z$ as the case may be. The lattice points in each region are designated by integers, $h_\ell (0 \leq h_\ell \leq H_\ell)$; these are the points at which the fluxes and source terms are computed and numerical integration is performed.

Composition of the reactor, a mixture of Z pure materials, ⁽¹⁾ $1 \leq Z \leq 10$, is assumed to depend on one coordinate only. The composition is uniform in each region, varying from region to region as specified. In all core regions, for which $\ell \leq C$, the composition is varied proportionally to the original regional composition specified to achieve the critical composition of the reactor.

The neutron energy spectrum is divided into a set of J energy groups, $2 \leq J \leq 20$, with arbitrary spacing. Energy is considered to decrease with increasing J , so that group 1 represents the neutrons of highest energy.

Inelastic scattering into the next G lower energy groups is taken into account. G is a problem parameter and may vary from 1 to 6. Inelastic cross sections for scattering from each energy group to the next G lower energy groups are entered as input data.

The input data fall easily into two categories - the problem parameters and specifications, or tape 1 data, and the cross sections, or tape 2 data. The problem parameters and specifications include such items as the problem number, C , L , Z , G , J , the boundaries of the regions and the number of lattice points to be used in each, the initial composition and fission source for each region, and the convergence and criticality criteria. Cross sections, provided for each material and for each energy group, are σ_a , $3\sigma_{tr}$, $\nu\sigma_f$, σ_{in}^g with $g = 1, 2, \dots, G$, and σ_{tot} . These quantities are described in Sections II and III and input sheets for a sample problem are included in Appendix B.

Boundary conditions for the cylindrical and spherical cases are fixed. For the cylinder, $r = b_0 = 0$ is assumed to be a plane of symmetry, $\left(\frac{\partial \phi}{\partial r}\right)_{r=b_0} = 0$ and the flux is taken to be zero at the outer edge, $\phi(b_L) = 0$. For the sphere, $\psi = r\phi$ is used in the computations rather than ϕ , and $\psi(b_0) = \psi(b_L) = 0$ are the boundary conditions imposed.

¹A pure material may be defined as any substance which is characterized by a single set of cross sections per unit volume.

In the case of the slab, a choice of three sets of boundary conditions is offered:

- (1) Flux is zero at both edges:

$$\phi(b_0) = \phi(b_L) = 0$$

- (2) $z = b_0 = 0$ is taken as a plane of symmetry, instead of the edge of the reactor:

$$\left(\frac{\partial \phi}{\partial z} \right)_{z=b_0} = 0$$

$$\phi(b_L) = 0.$$

- (3) Both $z = b_0 = 0$ and $z = b_L$ are taken as planes of symmetry, the case of an infinite periodic medium:

$$\left(\frac{\partial \phi}{\partial z} \right)_{z=b_0} = \left(\frac{\partial \phi}{\partial z} \right)_{z=b_L} = 0.$$

In the slab programs there exists also the alternative of varying the lateral buckling rather than the composition to achieve criticality. This requires minor changes in input data and is treated in Section III.

In the numerical solution of the problem the set of J diffusion equations of the form

$$\nabla(D\nabla\phi) - \sigma_a\phi + S = 0,$$

is replaced by a set of J coupled difference equations which are solved by iteration.

Here D is the diffusion coefficient $\left(= \frac{1}{3\sigma_{tr}} \right)$ and

$$\sigma_a = \sigma_{in} + \sigma_c + \sigma_f,$$

$$\phi = \text{neutron flux},$$

$$S = \text{the source term}.$$

With the initial composition and fission source approximations given, the difference equations are used to calculate the fluxes and their related fission source terms, which, in turn, are used to compute new fluxes and thence new fission source terms. This iteration, termed a minor cycle, is continued until given fission source terms produce a flux capable of reproducing the fission source integrals to an accuracy as specified by δ , the convergence criterion. When this happens a test for criticality is made, using the specified ϵ , criticality criterion. If the reactor is not

critical, the composition of the core regions is varied and a new minor cycle initiated. This iterative change in composition is called a major cycle. When the reactor has been determined to be critical the programs will automatically put out on tape for UNIPRINTER typing the critical composition, the fluxes and fission source terms, their integrals for each region and the leakage from each region. The output is described in Section IV and a sample problem edit is included as Appendix D.

Since these programs were initiated, over five hundred problems have been solved. The machine time required for solving these problems has varied from a few minutes to over an hour, with an average time of approximately 15-20 minutes. The length of time required seems to be primarily a function of the quality of the initial composition and fission source approximations and their related convergence and criticality criteria, and secondarily dependent on the number of energy groups and lattice points used in the problem.

In the last few months three new UNIVAC programs, modifications of RE-6, 7, and 8, designed to allow as many pure materials as required and to permit the use of disadvantage factors in computing the thermal group's effective cross sections, if desired, have been added. These programs are known as RE-6X, 7X, and 8X, respectively, and are not discussed further in this report.

No attempt is made in this report to describe the UNIVAC or UNIVAC procedures. A detailed description of the machine and its operation is given in the Instruction Manual I, "Programming UNIVAC Fac-tronic Systems" published by the Eckert-Mauchly Division of Remington Rand in January 1953.

II. DEFINITIONS AND SCALING

<u>Symbol</u>	<u>Definition</u>	<u>Index</u>	<u>Range</u>	
L	Number of regions in the reactor	ℓ	$1 \leq L \leq 10$	(2)
H_ℓ	Number of sub-intervals in region ℓ	h	$2 \leq H_\ell < 99$	
N	Number of sub-intervals in the reactor		$2 \leq N + L < 100$	(2)
$N = \sum_{\ell=1}^L H_\ell$				
J	Number of energy groups	j	$2 \leq J \leq 20$	
G	Number of energy groups into which inelastic scattering is considered	g	$1 \leq G \leq 6$	(2)
C	Largest ℓ of the regions in which the composition ($c_{ms\ell}^m$) is to be varied. This quantity is generally referred to as the number of core regions.		$1 \leq C \leq L$	
	For RE-8, 28:		$0 \leq C \leq L$	
Z	Largest z of the materials of the corresponding cross section data to be used. This quantity is generally referred to as the number of materials - obviously, the material indices of tape 1 data and tape 2 data must correspond.	z	$1 \leq Z \leq 10$	

(2) For each UNIVAC program, RE-6, 7, 8 and their adjoint geometrical equivalents, RE-26, 27, 28, there is a single equation which determines the range of N and L in relation to each other:

$$(4 + G)N + (4 + 2G)L \leq 855 - M_1^*$$

where

$$\begin{aligned}
 M_1^* &= 302 \text{ for RE-6, 8} \\
 &= 334 \text{ for RE-7} \\
 &= 309 \text{ for RE-26, 28} \\
 &= 341 \text{ for RE-27} \quad (\text{see Appendix A})
 \end{aligned}$$

<u>Symbol</u>	<u>Definition</u>	<u>Range</u>
$b_\ell(\text{cm})$	Distance to outer boundary of region ℓ	$1 \leq b_\ell < 300$
$b_C(\text{cm})$	Distance to outer boundary of region ℓ , for $\ell = C$ For RE-6, 26: For RE-7, 27:	$0.5 \leq b_C \leq 100$ $4 \leq b_C < 100$
β_j	Fraction of fission neutron emitted in group j	$0 \leq \beta_j < 1$
$v_{\ell,z}$	$\left. \frac{\text{Volume of material } z \text{ in region } \ell}{\text{Volume of region } \ell} \right\} \ell > C$ For $\ell \leq C$, $v_{\ell,z}^F$ and $v_{\ell,z}^D$ are specified instead of $v_{\ell,z}$ and the machine computes the appropriate $v_{\ell,z}$ (see definition of $c^1 s_\ell$).	$0 \leq v_{\ell,z} < 1$ $0 \leq v_{\ell,z}^F, v_{\ell,z}^D < 1$
$\hat{S}_{f\ell}$	Initial estimated step-function fission source for region ℓ to be used for the first minor cycle.	$0 \leq \hat{S}_{f\ell} < 10$
B^2	Lateral buckling For RE-6, 26: This is $\left(\frac{\pi}{H}\right)^2$ and H , the height of the cylinder, is given as input data, rather than B^2 . For RE-7, 27: $B^2 = 0$	$-1 \leq B^2 \leq 1$ $5 \leq H < 1000$
$c^1 s_\ell$	Input data specified to fulfill the following relation: $c^1 s_\ell v_{\ell,z}^F + (1 - c^1 s_\ell) v_{\ell,z}^D = v_{\ell,z} \text{ for } \ell \leq C$ s_ℓ , the regional parameter, remains constant throughout the problem while c^m is changed with each major cycle to obtain the critical composition. To iterate on buckling in RE-8, 28 all s_ℓ must = 0 and $c^1 = B^2$.	$0 < c^1 < 10$ $0 \leq s_\ell < 1$
$c^m s_\ell$	Composition as determined for region ℓ in major cycle m .	$0 \leq c^m s_\ell < 1$
δ	Allowable error for convergence	$10^{-4} \leq \delta < 10$
ϵ	Allowable error for criticality	$10^{-5} \leq \epsilon < 10$

<u>Symbol</u>	<u>Definition</u>	<u>Range</u>
W	For RE-6, 7, 26, 27 = 0 For RE-8, 28: W = 0 Asymmetric slab W = 10 ⁻¹ Symmetric slab (z = 0 taken as a plane of symmetry)	
X	For RE-6, 7, 26, 27 = 0 For RE-8, 28: X = 0 Not a cell calculation X = 10 ⁻¹ Cell calculation (both z = 0 and z = b _L taken as planes of symmetry)	
$\sigma_{a_{z,j}}(\text{cm}^{-1})$	Absorption cross section for material z in energy group j	$0 \leq \sigma_{a_{z,j}} < 80$
$3\sigma_{tr_{z,j}}(\text{cm}^{-1})$	The reciprocal of the diffusion coefficient, or 3 times the transport cross section for material z in energy group j	$0.04 < 3\sigma_{tr_{z,j}} < 80$
$\nu\sigma_{f_{z,j}}(\text{cm}^{-1})$	Number of neutrons emitted per fission times the fission cross section for material z in energy group j	$0 \leq \nu\sigma_{f_{z,j}} < 80$
$\sigma_{in_z}^{j \rightarrow j+g}(\text{cm}^{-1})$	Inelastic scattering cross section for material z from energy group j into energy group j+g (used in the real solutions)	$0 \leq \sigma_{in_z}^{j \rightarrow j+g} < 1$
$\sigma_{in_z}^{j-g \rightarrow j}(\text{cm}^{-1})$	Inelastic scattering cross section for material z from energy group j-g into energy group j (used in the adjoint solutions)	$0 \leq \sigma_{in_z}^{j-g \rightarrow j} < 1$
$\sigma_{tot_{z,j}}(\text{cm}^{-1})$	Sum of the cross sections as listed above, i.e., $\sigma_{a_{z,j}} + 3\sigma_{tr_{z,j}} + \nu\sigma_{f_{z,j}} + \sigma_{in_z}^{(j \rightarrow j+g) \text{ or } (j-g \rightarrow j)}$ with g = 1, 2...G.	$0 \leq \sigma_{tot_{z,j}} < 1000$
$\Delta_{\ell}^r, \Delta_{\ell}^z(\text{cm})$	Thickness of the sub-intervals of region ℓ $\Delta_{\ell}^r, \Delta_{\ell}^z = \frac{b_{\ell} - b_{\ell-1}}{H_{\ell}}$	$0.5 \leq \Delta_{\ell}^r, \Delta_{\ell}^z < 10$

<u>Symbol</u>	<u>Definition</u>	<u>Range</u>
$\Delta_{\ell-1}/\Delta_{\ell}$	Ratio of the sub-interval thickness of region $\ell - 1$ to the sub-interval thickness of region ℓ	For RE-6, 26: $0.25 \leq \Delta_{\ell-1}/\Delta_{\ell} \leq 1$ For RE-7, 8, 27, 28: $0.25 \leq \Delta_{\ell-1}/\Delta_{\ell} < 10$
λ_{ℓ}	$3\sigma_{\text{tr}\ell} (\Delta_{\ell})^2$	$0.01 \leq \lambda_{\ell} \leq 300$
Σ_{ℓ}	$\sigma_{a\ell} + \frac{B^2}{3\sigma_{\text{tr}\ell}}$	$0 \leq \Sigma_{\ell} < 1000$
k_{ℓ}	$2 + \lambda_{\ell} \Sigma_{\ell}$	$2 \leq k_{\ell} < 8000$
$u_{\ell,h}$	(See Section V)	$u_{\ell,h} < 100$
$v_{\ell,h}$	(See Section V)	$v_{\ell,h} < 10^r \quad (3)$
$\phi_{\ell,h}$	Neutron flux at the point ℓ, h	$0 \leq \phi_{\ell,h} < 10^r \quad (3)$
$\psi_{\ell,h}$	$r \cdot \phi_{\ell,h}$ (used in RE-7, 27)	$0 \leq \psi_{\ell,h} < 10^{r+3} \quad (3)$
$(I\phi)_{\ell}$	Integral of the flux for region ℓ For RE-6, 26: $(I\phi)_{\ell} = \frac{4}{\pi b_c^2} \int_{b_{\ell-1}}^{b_{\ell}} r \phi(r) dr$ For RE-7, 27: $(I\phi)_{\ell} = \frac{3}{\pi b_c^3} \int_{b_{\ell-1}}^{b_{\ell}} r \psi(r) dr$ For RE-8, 28: $(I\phi)_{\ell} = \frac{D}{b_L} \int_{b_{\ell-1}}^{b_{\ell}} \phi(z) dz$	$0 \leq (I\phi)_{\ell} < 10^r \quad (3)$

(3) r is a variable scale factor, set initially at 2, and reset to 2 at the start of each minor cycle. During the cycle, however, if overflow occurs in the computation of any of the quantities with the r scale factor, an overflow routine will downscale all quantities with this scale factor by 10 (i.e., $r + 1 \rightarrow r$).

<u>Symbol</u>	<u>Definition</u>	<u>Range</u>
	Where D is given as input data	$0.4 < D < 1$
	$D = \frac{2 J_1(j(0,1))}{j(0,1)}$ for a cylindrical slab,	
	$= \left(\frac{2}{\pi}\right)^2$ for a rectangular parallelepiped	
$S_{f_{l,h}}$	Fission source at the point l,h	$0 \leq S_{f_{l,h}}, Q_{l,h} < 10^r \quad (4)$
$Q_{l,h}$	During the minor cycle $S_{f_{l,h}}$ is computed as $Q_{l,h}$ For RE-6, 8:	
	$S_{f_{l,h}} = \sum_{j=1}^J \nu \sigma_{f_l}^j \phi_{l,h}^j$	
	$Q_{l,h}^j = Q_{l,h}^{j-1} + \nu \sigma_{f_l}^j \phi_{l,h}^j$	$Q_{l,h}^0 = 0$
	For RE-26, 28:	
	$S_{f_{l,h}} = \sum_{j=1}^J \beta_j \phi_{l,h}^j$	
	$Q_{l,h}^j = Q_{l,h}^{j+1} + \beta_j \phi_{l,h}^j$	$Q_{l,h}^{J+1} = 0$
$T_{f_{l,h}}$	$r \cdot S_{f_{l,h}}$ (used in RE-7, 27)	$0 \leq T_{f_{l,h}}, Q_{l,h} < 10^{r+3} \quad (4)$
$Q_{l,h}$	During the minor cycle $T_{f_{l,h}}$ is computed as $Q_{l,h}$ For RE-7:	
	$T_{f_{l,h}} = \sum_{j=1}^J \nu \sigma_{f_l}^j \psi_{l,h}^j$	
	$Q_{l,h}^j = Q_{l,h}^{j-1} + \nu \sigma_{f_l}^j \psi_{l,h}^j$	$Q_{l,h}^0 = 0$

(4) There is no provision on the calculation of this quantity for going to the $r + 1$ overflow routine.

<u>Symbol</u>	<u>Definition</u>	<u>Range</u>
For RE-27:		
	$T_{f\ell,h} = \sum_{j=1}^J \beta_j \psi_{\ell,h}^j$	
	$Q_{\ell,h}^j = Q_{\ell,h}^{j+1} + \beta_j \psi_{\ell,h}^j$	$Q_{\ell,h}^{J+1} = 0$
$(IS_f)_\ell$	Integral of the fission source for region ℓ	$0 \leq (IS_f)_\ell, Y_\ell < 10^7 \quad (4)$
Y_ℓ	During the minor cycle $(IS_f)_\ell$ is computed as Y_ℓ .	
For RE-6, 26:		
	$(IS_f)_\ell = \frac{4}{\pi b_c^2} \int_{b_{\ell-1}}^{b_\ell} r S_f(r) dr$	
For RE-7, 27:		
	$(IS_f)_\ell = \frac{3}{\pi b_c^3} \int_{b_{\ell-1}}^{b_\ell} r T_f(r) dr$	
For RE-8, 28:		
	$(IS_f)_\ell = \frac{D}{b_L} \int_{b_{\ell-1}}^{b_\ell} S_f(z) dz$	
For RE-6, 7, 8:		
	$Y_\ell^j = Y_\ell^{j-1} + \nu \sigma_{f\ell}^j (I\phi)_\ell^j$	$Y_\ell^0 = 0$
For RE-26, 27, 28:		
	$Y_\ell^j = Y_\ell^{j+1} + \beta_j (I\phi)_\ell^j$	$Y_\ell^{J+1} = 0$
$S_{in\ell,h}$	Inelastic source at the point ℓ,h	$0 \leq S_{in\ell,h}, Z_{\ell,h}^g < 10^7 \quad (4)$

<u>Symbol</u>	<u>Definition</u>	<u>Range</u>
$Z_{l,h}^g$	<p>During the minor cycle</p> $Z_{l,h}^1, Z_{l,h}^2 \dots Z_{l,h}^G$ <p>are computed with $S_{in l,h} = Z_{l,h}^1$.</p> <p>For RE-6, 8:</p> $S_{in l,h} = \sum_{k=1}^{j-1} \sigma_{in l}^{k \rightarrow j} \phi_{l,h}^k$ $Z_{l,h}^{g,j} = Z_{l,h}^{g+1,j-1} + \sigma_{in l}^{j \rightarrow j+g} \phi_{l,h}^j \quad \text{For } g=1,2,\dots,(G-1)$ $Z_{l,h}^{G,j} = \sigma_{in l}^{j \rightarrow j+G} \phi_{l,h}^j \quad Z_{l,h}^{g,0} = 0$ <p>For RE-26, 28:</p> $S_{in l,h} = \sum_{k=j+1}^{J \cap j+G} \sigma_{in l}^{j \rightarrow k} \phi_{l,h}^k$ $Z_{l,h}^{g,j} = Z_{l,h}^{g+1,j+1} + \sigma_{in l}^{j-g \rightarrow j} \phi_{l,h}^j \quad \text{For } g=1,2,\dots,(G-1)$ $Z_{l,h}^{G,j} = \sigma_{in l}^{j-G \rightarrow j} \phi_{l,h}^j \quad Z_{l,h}^{g,J+1} = 0$	
$T_{in l,h}$	$r \cdot S_{in l,h}$ (used in RE-7, 27).	$0 \leq T_{in l,h}, Z_{l,h}^g < 10^r$
$Z_{l,h}^g$	<p>During the minor cycle</p> $Z_{l,h}^1, Z_{l,h}^2 \dots Z_{l,h}^G$ <p>are computed with $T_{in l,h} = Z_{l,h}^1$.</p> <p>For RE-7:</p> $T_{in l,h} = \sum_{k=1}^{j-1} \sigma_{in l}^{k \rightarrow j} \psi_{l,h}^k$ $Z_{l,h}^{g,j} = Z_{l,h}^{g+1,j-1} + \sigma_{in l}^{j \rightarrow j+g} \psi_{l,h}^j \quad \text{For } g=1,2,\dots,(G-1)$ $Z_{l,h}^{G,j} = \sigma_{in l}^{j \rightarrow j+G} \psi_{l,h}^j \quad Z_{l,h}^{g,0} = 0$	

<u>Symbol</u>	<u>Definition</u>	<u>Range</u>
	For RE-27:	
	$T_{in\ell,h} = \sum_{k=j+1}^J \prod_{j+1}^{j+G} \sigma_{in\ell}^{j \rightarrow k} \psi_{\ell,h}^k$	
	$Z_{\ell,h}^{g,j} = Z_{\ell,h}^{g+1,j+1} + \sigma_{in\ell}^{j-g \rightarrow j} \psi_{\ell,h}^j \quad \text{For } g=1,2,\dots,(G-1)$	
	$Z_{\ell,h}^{G,j} = \sigma_{in\ell}^{j-G \rightarrow j} \psi_{\ell,h}^j$	$Z_{\ell,h}^{g,J+1} = 0$
$(IS_{in})_{\ell}$	Integral of the inelastic fission source for region ℓ .	$0 \leq (IS_{in})_{\ell}, p_{\ell}^g < 10^r \quad (4)$
p_{ℓ}^g	During the minor cycle $p_{\ell}^1, p_{\ell}^2 \dots p_{\ell}^G$ are computed with $(IS_{in})_{\ell} = p_{\ell}^1$	
	For RE-6, 26:	
	$(IS_{in})_{\ell} = \frac{4}{\pi b_c^2} \int_{b_{\ell-1}}^{b_{\ell}} r S_{in}(r) dr$	
	For RE-7, 27:	
	$(IS_{in})_{\ell} = \frac{3}{\pi b_c^3} \int_{b_{\ell-1}}^{b_{\ell}} r T_{in}(r) dr$	
	For RE-8, 28:	
	$(IS_{in})_{\ell} = \frac{D}{b_L} \int_{b_{\ell-1}}^{b_{\ell}} S_{in}(z) dz$	
	For RE-6, 7, 8:	
	$p_{\ell}^{g,j} = p_{\ell}^{g+1,j-1} + \sigma_{in\ell}^{j \rightarrow j+g} (I\phi)_{\ell}^j \quad \text{For } g=1,2,\dots,(G-1)$	
	$p_{\ell}^{G,j} = \sigma_{in\ell}^{j \rightarrow j+G} (I\phi)_{\ell}^j$	$p_{\ell}^{g,0} = 0$

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<u>Symbol</u>	<u>Definition</u>	<u>Range</u>
	For RE-26, 27, 28:	
	$p_{\ell}^{g,j} = p_{\ell}^{g+1,j+1} + \sigma_{in\ell}^{j-g \rightarrow j} (I\phi)_{\ell}^j \quad \text{For } g=1,2,\dots,(G-1)$	
	$p_{\ell}^{G,j} = \sigma_{in\ell}^{j-G \rightarrow j} (I\phi)_{\ell}^j \quad p_{\ell}^{g,J+1} = 0$	
F	Normalization factor = fission source density	$0 \leq F \leq 10$
	For RE-6, 7, 26, 27:	
	$F = \sum_{\ell=1}^C (IS_f)_{\ell}$	
	For RE-8, 28:	
	$F = \sum_{\ell=1}^L (IS_f)_{\ell}$	
$S_{f\ell,h}^*$	Normalized fission source at the point ℓ, h	$0 \leq S_{f\ell,h}^* < 10^2 \quad (4)$
	For RE-6, 8, 26, 28:	
	$S_{f\ell,h}^* = \frac{S_{f\ell,h}}{F}$	
$T_{f\ell,h}^*$	$r \cdot S_{f\ell,h}^*$ (Used in RE-7, 27)	$0 \leq T_{f\ell,h}^* < 10^5 \quad (4)$
	$T_{f\ell,h}^* = \frac{T_{f\ell,h}}{F}$	
$(IS_f)_{\ell}^*$	Normalized integral of the fission source in region ℓ	$0 \leq (IS_f)_{\ell}^* < 10^2 \quad (4)$
	$(IS_f)_{\ell}^* = \frac{(IS_f)_{\ell}}{F}$	

<u>Symbol</u>	<u>Definition</u>	<u>Range</u>
$S_{\ell,h}^*$	Total source at the point ℓ, h as used in computation	
	(RE-6, 26)	$0 \leq S_{\ell,h}^* < 10^{r-1}$ (3)
	(RE-8, 28)	$0 \leq S_{\ell,h}^* < 10^r$ (3)

For RE-6, 8:

$$S_{\ell,h}^* = \beta_j S_{f_{\ell,h}}^* + S_{in_{\ell,h}}$$

For RE-26, 28:

$$S_{\ell,h}^* = \nu \sigma_{f_{\ell}}^j S_{f_{\ell,h}}^* + S_{in_{\ell,h}}$$

$$T_{\ell,h}^* \quad r \cdot S_{\ell,h}^* \text{ (Used in RE-7, 27)} \quad 0 \leq T_{\ell,h}^* < 10^{r+3} \quad (3)$$

For RE-7:

$$T_{\ell,h}^* = \beta_j T_{f_{\ell,h}}^* + T_{in_{\ell,h}}$$

For RE-27:

$$T_{\ell,h}^* = \nu \sigma_{f_{\ell}}^j T_{f_{\ell,h}}^* + T_{in_{\ell,h}}$$

$$(IS)_{\ell}^* \quad \text{Integral of the source for region } \ell \quad 0 \leq (IS)_{\ell} < 10^r \quad (4)$$

For RE-6, 7, 8:

$$(IS)_{\ell}^* = \beta_j (IS)_{f_{\ell}}^* + (IS)_{in_{\ell}}$$

For RE-26, 27, 28:

$$(IS)_{\ell}^* = \nu \sigma_{f_{\ell}}^j (IS)_{f_{\ell}}^* + (IS)_{in_{\ell}}$$

$$E_{i_{\ell}}, E_{0_{\ell}} \quad \text{Leakage into } (E_{i_{\ell}}) \text{ and leakage out of } (E_{0_{\ell}}) \text{ region } \ell \text{ divided by the volume of the core (RE-6, 7, 26, 27) (the volume of the reactor (RE-8, 28)) (See Section V)} \quad -10^r < E_{i_{\ell}}, E_{0_{\ell}} < 10^r \quad (4)$$

$$E_{i_{\ell}} = E_{0_{\ell-1}}$$

In addition, to these general definitions and their scaling, it was necessary to scale certain related quantities. These related quantities are listed by program.

RE-6, 26:

$$\frac{2r\Delta_{\ell}r}{\pi b_c^2} < 100$$

$$\frac{2rk_{\ell}}{\Delta_{\ell}r} < 5 \cdot 10^4$$

$$3\sigma_{tr_{\ell}}/3\sigma_{tr_{\ell-1}} < 6$$

$$\frac{k_{\ell}}{\Delta_{\ell}r} + \frac{3\sigma_{tr_{\ell}}}{3\sigma_{tr_{\ell-1}}} \cdot \frac{k_{\ell-1}}{\Delta_{\ell-1}r} < 10^4$$

RE-7, 8, 27, 28:

$$P_{\ell} = \frac{3\sigma_{tr_{\ell}} \cdot \Delta_{\ell}}{3\sigma_{tr_{\ell-1}} \cdot \Delta_{\ell-1}} \quad 0 < P_{\ell} < 100$$

RE-7, 27:

$$\frac{(\Delta_{\ell}r)^2}{2b_c^3} (\psi_{\ell,0} - \psi_{\ell,h}) < 10^r \quad (4)$$

III. PREPARATION OF INPUT DATA

Form sheets from which the data may be typed directly onto the UNIVAC tapes should be used for input information. Sample form sheets are attached as Appendix B.

Each sheet contains one-half UNIVAC block or 30 words, each word consisting of twelve digits. The first or left-most digit represents the sign digit for numerical data; it is zero for positive quantities and minus for negative ones. The decimal point is thought of as immediately following this digit, allowing the number to be written to the 10⁻¹¹th place. The input form sheets specify additional scaling where required.

The cross-sectional input for a problem need not be unique and is therefore written on a separate tape, called tape 2, since UNISERVO 2 is always used for this tape.

Problem input data, other than the cross sections, are written on tape 1 and UNISERVO 1 is used for this tape.

Any number of problems, or sets of cross sections, may be merged on tapes 1 and 2, since the programs search for both the problem and cross-sectional input after trying to do the problems consecutively. Tape 2 must have two irrelevant blocks following the last set of cross-sectional data.

All input information is defined in Section II, with the exception of the problem number. The problem number consists of five digits -- the first two representing the identification of the cross-sectional data on tape 2 to be used; the problem data on tape 1 are identified by the use of all five digits. All problems having the same first two digits for problem numbers will use the same cross-sectional information, and the material and energy group indices of these problems must correspond to the material and energy group indices of the cross sections.

There are six form sheets -- four for tape 1 (a page 1, page 2, page 3 and final page), a page 1 for tape 2, and a general form to be used for additional volume fractions for tape 1 and for additional cross sections for tape 2 as necessary.

Input data for tape 1 of a problem may require from three to six blocks, depending on the number of regions and materials used.

The number of blocks is determined by the following:

$$\left[\frac{(C + L) Z + 6}{60} \right] + 3.$$

2)

For each problem the first block consists of the data on pages 1 and 2, and the last block consists of the data on the final page beginning with the word 770 ($= \hat{S}_{f1}$).

Input data for tape 2 may require from two to thirty-four blocks and the number of blocks can be determined by:

$$\left[\frac{(4 + G) J}{6} \right] + 1.$$

The first thirty words of the first block are written on page 1 with the remaining cross sections filled in on general form sheets in the order specified on the page 1 form.

Changes Required for the Adjoint Solutions (RE-26, 27, 28)

Tape 1, pages 2 and 3. The β_j 's are written in reverse order (i.e., β_J is written at 057, β_{J-1} at 058, . . . β_1 at 056 + J).

Tape 2. The cross sections are written in reverse order starting with cross sections for group J at 520 on page 1, rather than for group 1, and continuing through J-1, J-2 . . . , 1. A second change required in tape 2 data is in the presentation of the inelastic scattering cross sections. For each j, they are written in the following order:

$$\sigma_{in}^{j-1 \rightarrow j}, \sigma_{in}^{j-2 \rightarrow j}, \dots, \sigma_{in}^{1 \cap j-G \rightarrow j}.$$

Changes Required for Iteration on Buckling (RE-8, 28):

C can be set equal to zero so that the entries of volume fractions are kept to a minimum. All s_0 must equal zero. B^2 must be entered as c^1 as well as B^2 . The B^2 determined as the solution is then printed in the edited output as c.

IV. OUTPUT INFORMATION

A sample problem edit is attached as Appendix D. Each page of problem results contains the problem number, page number, and date. The results are in two sections.

The first gives the fission source for each point from the point (L, H) to the point (1, 0). At each point (ℓ , 0) the integral of the fission source for the region is printed alongside the fission source for the point. Each page containing these fission source results has listed across the top of the page the value of r (the scale factor to be used in interpreting these results) and the critical values of $c \cdot 10^{-1}$ ⁽⁵⁾ and $F \cdot 10^{-1}$ ⁽⁵⁾

The second section of results lists the appropriate energy group index, j, at the top of each page, giving the fluxes for each point from (L, H-1) to the point (1, 0). At each point (ℓ , 0) the integral of the flux for the region (I ϕ) ℓ and the leakage out of the region $E_0 \ell$ is tabulated also. For the RE-6, 8, 26, 28 programs the additional quantity E_{i_1} is printed. It is listed following E_{0_1} for each energy group.

The positive sign digits are deleted in the editing, ⁽⁵⁾ and all quantities, except r, c, and F, are presented as scaled by 10^{-r} .

⁽⁵⁾ For the RE-8, 28 programs, the sign digit is printed with the $c \cdot 10^{-1}$ and $F \cdot 10^{-1}$ quantities. In the event that the iteration on buckling adaptation was used, $c \cdot 10^{-1}$ is the critical lateral buckling multiplied by 10^{-1} .

V. DESCRIPTION OF MATHEMATICAL METHOD

A Multigroup Treatment of Reactor Problems*

We assume the reactor to be composed of regions over which neutron cross sections are fairly constant and which are large in comparison with mean free paths, so as to make the simplifying approximation that the flux density (scalar) $\phi(\vec{r}, E)$ satisfies a diffusion equation $\vec{\nabla} \cdot D \vec{\nabla} \phi + Q = 0$.

There are three contributions to the source term Q at energy level E : (1) neutrons lost by scattering and capture at the rate $\sigma_a \phi$; (2) neutrons gained by fission at the rate βS_f , where $\beta(E)$ is the fission spectrum and $S_f(\vec{r})$ the fission source density. If ν be the number of neutrons emitted per fission and σ_f the fission cross section, then

$S_f(\vec{r}) = \nu(\vec{r}) \int_0^{E_{\max}} \sigma_f(\vec{r}, E') \phi(\vec{r}, E') dE'$; (3) neutrons gained from higher levels by scattering at the rate S_s . If $\sigma_s(\vec{r}, E', E) dE$ is the cross section for scattering from level E' into the range from E to $E + dE$, then

$$S_s(\vec{r}, E) = \int_E^{E_{\max}} \sigma_s(\vec{r}, E', E) \phi(\vec{r}, E') dE'.$$

The diffusion coefficient $D(\vec{r}, E)$ is one-third the reciprocal of a quantity we define as the transport cross section, so the diffusion equation is, in more detail,

$$\vec{\nabla} \cdot \frac{1}{3\sigma_{tr}} \vec{\nabla} \phi - \sigma_a \phi + \beta \nu \int_0^{E_{\max}} \sigma_f \phi dE' + \int_E^{E_{\max}} \sigma_s \phi dE' = 0,$$

for $\vec{r}$ in R (a region containing the reactor), $0 < E \leq E_{\max}$, and $\phi = 0$ on the boundary of R .

This equation does not, in general, have any solution (see Appendix E-1), and during the course of the problem we must adjust cross sections (or the geometrical buckling) until one exists. The reactor is a mixture of two substances: a fuel with cross sections σ^F , and a diluent with cross sections σ^D . One mixture is standardized in which the volume fraction of fuel present at point $\vec{r}$ is given by $s(\vec{r})$ and that of diluent by $1 - s(\vec{r})$. The adjustment is made by using a multiple $cs(\vec{r})$, instead of $s(\vec{r})$ itself, and then varying c . The corresponding cross sections are given by $\sigma^c(\vec{r}, E) = cs(\vec{r}) [\sigma^F(\vec{r}, E) - \sigma^D(\vec{r}, E)] + \sigma^D(\vec{r}, E)$.

*This treatment has been adapted by J. H. Alexander, J. W. Butler, J. M. Cook, D. A. Flanders, and D. Okrent from one originated at KAPL. (See R. Ehrlich and H. Hurwitz, Jr., "Multigroup Methods for Neutron Diffusion Problems," *Nucleonics* 12, No. 2, p. 23, 1954.)

For numerical solution, the equation is replaced by one in functions depending on variables which range over a finite instead of a continuous set. The energy is broken up into J groups and the original integro-differential equation becomes a collection of J difference equations coupled together by their scattering and fission terms.

Then, with some initial concentration c , let $\phi^{c,1}$ be an approximate solution of $\vec{\nabla} \cdot D^c \vec{\nabla} \phi + Q^c = 0$. Form $S_f^{c,1}$ using $\phi^{c,1}$, and solve the rest of the system for $\phi^{c,2}$, i.e., (see Appendix E-2),

$$\vec{\nabla} \cdot D^c \vec{\nabla} \phi^{c,2} - \sigma_a^c \phi^{c,2} + \int_E^{E_{\max}} \sigma_s^c \phi^{c,2} dE + \beta^c \nu \int_0^{E_{\max}} \sigma_f^c \phi^{c,1} dE = 0.$$

Repeat the computation with $\phi^{c,2}$ in place of $\phi^{c,1}$ to obtain $\phi^{c,3}$, and so on. These iterations follow the time development of an artificial diffusion process in which $\phi^{c,i}$ is the flux for the i^{th} generation of "neutrons," so we would expect $\phi^{c,i+1} - \mu(c) \phi^{c,i} \rightarrow 0$ as $i \rightarrow \infty$, for some constant μ depending on the concentration only, as the fundamental mode became dominant. It can be proven that this convergence to a uniquely determined stable flux, which is independent of the initial trial distribution, will always occur (see Appendix E-3).

If $\mu(c) = 1$, then $\lim_{i \rightarrow \infty} \phi^{c,i}$ exists to within the accuracy of the computer, and it is the final answer to the problem. If $\mu(c) \neq 1$, then we determine a new value of c by means of the extrapolation formula

$$c^{m+1} = c^m + [1 - \mu(c^m)] (c^m - c^{m-1}) / [\mu(c^m) - \mu(c^{m-1})]$$

and repeat the iteration process, starting again with an approximate solution

$$\phi^{c^{m+1},1}$$

To keep the flux from either vanishing or growing out of bounds during the course of the computation, the fission source term is normalized by

$$\text{writing } S_{f*}^{m,i} = S_f^{m,i} / F^{m,i} \text{ with } F^{m,i} = \int_{\text{core}} S_f^{m,i} dv / (\text{volume of core}).$$
 It

is this normalized source which is used in the calculation of $\phi^{c^m,i+1}$.

$$\text{Clearly, } \lim_{i \rightarrow \infty} F^{m,i} = \mu(c^m).$$

If the interfaces and boundaries of the reactor lie on surfaces of constant r for some coordinate system in which the Laplacian is completely separable, then dependence on the other two coordinates can be factored out

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of the equation. In general these two factors will be uniquely determined as those functions of the given variable satisfying the given symmetry, non-negativity, and boundary conditions, and belonging to the greatest (i.e., least negative) eigenvalue of ∇^2 . There remain J coupled ordinary second-order differential equations in r to solve of the form $\phi'' + P\phi' + S\phi = 0$. (The cylinder is a special case, but the numerical method turns out to be unchanged by addition of a term in ϕ' to this equation.) S contains the known contributions of scattering from higher energy groups and fission from the previous step of the iteration.

The conventional way to solve this equation is to take solutions ψ of the inhomogeneous equation $\psi'' + P\psi' + S\psi = 0$ and χ of the homogeneous equation $\chi'' + P\chi' = 0$, obtained by integrating outward from the origin where both obey the boundary condition; then form the linear combination $\phi = \psi + a\chi$. ϕ satisfies the boundary condition (assumed homogeneous) at the origin for any value of the constant a , so a can be adjusted until it satisfies the condition at the terminal point also.

But ψ and χ tend to increase exponentially in such a way that ϕ is the difference of two very large numbers. To avoid the consequent loss of significant figures an alternative method (developed at KAPL) is used: Define a Wronskian by $W = \phi\chi' - \chi\phi'$. Then $W' = \phi(-P\chi) - \chi(-P\phi - S) = \chi S$, so $W = \int_0^r \chi S dr$. χ and W are found by integrating outward from the origin. Then ϕ is found by integrating $W = \phi\chi' - \chi\phi'$ inward from the terminal point where it satisfies the boundary condition required there. $W(0) = 0$, and we have picked the origin as that end of the interval at which the solution is required to satisfy the linear homogeneous boundary condition $d_0\chi(0) + d_1\chi'(0) = 0$. But $\chi(0)$ and $\chi'(0)$ are not both zero (since $\chi \neq 0$), so $\phi(0)\chi'(0) - \chi(0)\phi'(0) = 0$ forces $\phi_0(0)(-d_0) - d_1\phi'(0) = 0$, and ϕ satisfies the boundary condition here also.

At the i^{th} step of the iteration, in energy group E_j , and at point r_n , the difference equation to be satisfied is

$$\frac{1}{3\sigma_{tr, n, j}} \frac{\phi_{n+1, j}^i - 2\phi_{n, j}^i + \phi_{n-1, j}^i}{(\Delta r)^2} - \sigma_{a, n, j} \phi_{n, j}^i + \sum_{\ell=1}^{j-1} \sigma_{s, n, \ell, j} \phi_{n, \ell}^i + \beta_j \sum_{\ell=1}^J \nu_n \sigma_{f, n, \ell} \phi_{n, \ell}^{i-1} = 0,$$

i.e., it is of the form

$$\phi_{n+1} = k_n \phi_n - \phi_{n-1} - S_n.$$

The corresponding homogeneous expression is of the form

$$\chi_{n+1} = k_n \chi_n - \chi_{n-1} ,$$

Subtract χ_n times the first expression from ϕ_n times the second to obtain

$$\begin{aligned} \phi_n \chi_{n+1} - \chi_n \phi_{n+1} &= (\phi_{n-1} \chi_n - \chi_{n-1} \phi_n) + \chi_n S_n \\ &= \phi_{n-1} (k_{n-1} \chi_{n-1} - \chi_{n-2}) - \\ &\quad \chi_{n-1} (k_{n-1} \phi_{n-1} - \phi_{n-2} - S_{n-1}) + \chi_n S_n \\ &= (\phi_{n-2} \chi_{n-1} - \chi_{n-2} \phi_{n-1}) + \chi_{n-1} S_{n-1} + \\ &\quad \chi_n S_n = \text{etc.} \\ &= (\phi_0 \chi_1 - \chi_0 \phi_1) + \sum_1^n \chi_\ell S_\ell . \end{aligned}$$

Boundary conditions at $n = 0$ will be expressed in the form $d_0 \chi_0 + d_1 \chi_1 = 0$ (and $d_0 \phi_0 + d_1 \phi_1 = 0$) with not both d_0 and d_1 zero. Therefore $\phi_0 \chi_1 - \chi_0 \phi_1 = 0$ and $\phi_n \chi_{n+1} - \chi_n \phi_{n+1} = W_n$, where W_n is defined as $W_n = \sum_1^n \chi_\ell S_\ell$.

So χ_n and W_n are determined successively from $n = 0$ outward by means of the recursion relations

$$\begin{aligned} \chi_{n+1} &= k_n \chi_n - \chi_{n-1} \\ W_{n+1} &= W_n + \chi_{n+1} S_{n+1} \end{aligned}$$

starting with χ_0 and χ_1 (not both zero) satisfying $d_0 \chi_0 + d_1 \chi_1 = 0$, and $W_0 = 0$. Then ϕ_n is determined inwardly from $n = N$ by

$$\phi_n = (\chi_n \phi_{n+1} + W_n) / \chi_{n+1} ,$$

starting with a ϕ_N and ϕ_{N-1} satisfying the set of simultaneous linear equations $A_{N-1} \phi_{N-1} + A_N \phi_N = A_{N+1}$ (boundary condition) and

$\chi_N \phi_{N-1} - \chi_{N-1} \phi_N = W_{N-1}$ (above recursion relation evaluated at $n = N-1$). [The consistency of this set is discussed in Appendix E-2.]

Interfaces are crossed by relations corresponding to $\phi^- = \phi^+$ and

$$\frac{1}{3\sigma_{tr}^-} \frac{\partial \phi^-}{\partial r} = \frac{1}{3\sigma_{tr}^+} \frac{\partial \phi^+}{\partial r}, \text{ which expresses continuity of flux and current.}$$

In actual practice, one solves for the ratios $u_n = \chi_{n-1}/\chi_n$ and $v_n = W_{n-1}/\chi_n$ instead of for χ_n and W_n themselves. They satisfy

$$u_{n+1} = 1/(k_n - u_n)$$

and

$$v_{n+1} = u_{n+1} (v_n + S_n)$$

starting with $u_1 = -d_1/d_0$, $v_1 = 0$. ϕ_n satisfies

$$\phi_n = u_{n+1} \phi_{n+1} + v_{n+1},$$

proceeding inward from a solution of the system

$$A_{N-1} \phi_{N-1} + A_N \phi_N = A_{N+1}$$

$$\phi_{N-1} - u_N \phi_N = v_N$$

as before.

As a check on the computations for a given group j and sub-region R_ℓ of the reactor, we integrate the equation

$$\vec{\nabla} \cdot D_j(\vec{r}) \vec{\nabla} \phi_j(\vec{r}) - \phi_{a,j}(\vec{r}) \phi_j(\vec{r}) + \beta_j S_f(\vec{r}) + S_{s,j}(\vec{r}) = 0 \text{ over } R_\ell.$$

By Green's divergence theorem

$$E_{R_\ell} - \int_{R_\ell} \sigma_a \phi dv + \beta_j \int_{R_\ell} S_f dv + \int_{R_\ell} S_s dv = 0,$$

where E_{R_ℓ} is the total flux into R_ℓ from across its surface. This balance check expresses the conservation of neutrons. It is an algebraic identity if the integrals are numerically approximated properly in a way corresponding to the difference equation satisfied by ϕ .

Because of their use in perturbation theory, we must also treat the adjoint equations. The multigroup operator is the sum of a self-adjoint operator $\vec{\nabla} \cdot \frac{1}{3\sigma_{tr}} \vec{\nabla} - \sigma_a$ having to do with spatial distribution within a

group, plus a non-self-adjoint operator which takes care of group-to-group transfer by means of scattering and fission. Therefore, in the solution of the adjoint equations u and v are computed as above; but interaction between groups is now governed by the transpose of the transfer matrix so we must proceed through them in reverse order, starting with the lowest energy level and working up to the top one during the course of each iteration. Also, the fission operator is applied backwards: first β , then ν and σ_f . Otherwise the main plan of the computation remains unchanged.

In summary, the (non-adjoint) calculations are arranged in the following general pattern:

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The composition of the pile is assumed to depend on only one of the coordinates, r . It is divided up into L sub-regions R_ℓ corresponding to the intervals $b_{\ell-1} \leq r \leq b_\ell$ with $0 = b_0 < b_1 \dots < b_L = b$, over each of which all cross sections are constant. The intervals are divided into H_ℓ sub-intervals of equal thickness $\Delta_\ell r = (b_\ell - b_{\ell-1})/H_\ell$. Functions of r will be given at the points $r_{\ell, h_\ell} = b_{\ell-1} + h_\ell \Delta_\ell r$ as $f(r_{\ell, h_\ell}) = f_\ell(h_\ell)$.

Details of the treatment have been worked out for piles of three different shapes:

A. Slab

A rectangular coordinate system (χ, y, z) is used with integration in the z -direction. The infinite slab occupies a region $-\infty < \chi < +\infty$, $-\infty < y < +\infty$, $0 \leq z \leq b$.

Within R_ℓ , u and v are determined by

$$u_\ell(h+1) = 1/[k_\ell - u_\ell(h)], \quad 0 < h < H_\ell, \quad 1 \leq \ell \leq L,$$

$$v_\ell(h+1) = u_\ell(h+1) \left\{ v_\ell(h) + \lambda_\ell S_\ell^*(h) \right\}, \quad 0 < h < H_\ell, \quad 1 \leq \ell \leq L,$$

$$k = 2 + \lambda \sigma_a, \quad \lambda = 3 \sigma_{tr} (\Delta z)^2.$$

At interfaces

$$u_{\ell+1}(1) = 2 / \left[\frac{\Delta_\ell z \cdot \lambda_{\ell+1}}{\Delta_{\ell+1} z \cdot \lambda_\ell} \left\{ k_\ell - 2u_\ell(H_\ell) \right\} + k_{\ell+1} \right], \quad 1 \leq \ell \leq L,$$

$$v_{\ell+1}(1) = u_{\ell+1}(1) \left\{ \frac{\Delta_\ell z \cdot \lambda_{\ell+1}}{\Delta_{\ell+1} z \cdot \lambda_\ell} v_\ell(H_\ell) + \frac{\Delta_\ell z \cdot \lambda_{\ell+1}}{2 \Delta_{\ell+1} z} S_\ell^*(H_\ell) + \frac{\lambda_{\ell+1}}{2} S_{\ell+1}^*(0) \right\}, \quad 1 \leq \ell \leq L.$$

ϕ is determined by

$$\phi_\ell(h-1) = v_\ell(h) + u_\ell(h) \phi_\ell(h), \quad 1 \leq h \leq H_\ell, \quad 1 \leq \ell \leq L.$$

For the boundary conditions $\phi = 0$ at both edges of the reactor, we use

$$u_1(1) = 0 \quad v_1(1) = 0 \quad \phi_L(H_L) = 0$$

as initial values.

If $z = 0$ is taken as a plane of symmetry of the reactor instead of an edge, i.e., for the boundary conditions $\left(\frac{\partial \phi}{\partial z}\right)_{z=0} = 0$, (see Appendix E-4), $\phi(b) = 0$, we use

$$u_1(1) = 2/k_1$$

$$v_1(1) = \frac{\lambda_1}{k_1} S_1^*(0)$$

$$\phi_L(H_L) = 0$$

If both $z = 0$ and $z = b$ are taken as planes of symmetry, i.e., for the boundary conditions $\left(\frac{\partial \phi}{\partial z}\right)_{z=0} = \left(\frac{\partial \phi}{\partial z}\right)_{z=b} = 0$ (case of an infinite periodic reactor, or of a finite one with perfectly reflecting walls), we use

$$u_1(1) = 2/k_1$$

$$v_1(1) = \frac{\lambda_1}{k_1} S_1^*(0)$$

$$\phi_L(H_L) = [2 v_L(H_L) + \lambda_L S_L^*(H_L)] / [k_L - 2 u_L(H_L)] ;$$

but now the operator $\vec{\nabla} \cdot D \vec{\nabla} - \sigma_a$ is no longer negative definite so (see Appendix E-2) a solution may not exist to certain problems.

The balance check

$$\begin{aligned} E_{j,\ell}^i - E_{j,\ell}' - \sigma_{a,j,\ell} \int_{b_{\ell-1}}^{b_\ell} \phi_{j,\ell} dz + \beta_j \int_{b_{\ell-1}}^{b_\ell} S_{f,\ell}^{*i-1} dz + \\ \int_{b_{\ell-1}}^{b_\ell} S_{s,j,\ell}^i dz = 0 \end{aligned}$$

is evaluated by trapezoidal integration. $E_{j,\ell}$ and $E_{j,\ell}'$ are the leakages upward thru the lower and upper interfaces (respectively) of R_ℓ , defined so as to make the check an algebraic identity

$$\begin{aligned} E_\ell &= \frac{\Delta_\ell z}{2 \lambda_\ell} \left\{ k_\ell \phi_\ell(0) - 2 \phi_\ell(1) - \lambda_\ell S_\ell^*(0) \right\} \\ E_\ell' &= \frac{\Delta_\ell z}{2 \lambda_\ell} \left\{ 2 \phi_\ell(H_\ell - 1) - k_\ell \phi_\ell(H_\ell) + \lambda_\ell S_\ell^*(H_\ell) \right\} . \end{aligned}$$

A finite slab is handled in exactly the same way. If it is cylindrical, with lateral boundary $\sqrt{\chi^2 + y^2} = a$, then the radial dependence of the flux can be factored out as a Bessel function: $J_0\left(\frac{j(0,1)}{a}\sqrt{\chi^2 + y^2}\right) \phi(z)$. [$j(0,1)$ = first zero of J_0 .] Then the lateral leakage is just treated as though it were a form of absorption. σ_a is replaced by $\sigma_a + \frac{j(0,1)^2}{3\sigma_{tr} a^2}$ in all the above equations, and the computational procedure remains unchanged, except that to integrate over the pile functions which are linear in the flux, we must multiply the z -integral by a factor of $\frac{2\pi}{j(0,1)} J_1(j(0,1)) a^2$.

Similarly, in the case of a rectangular slab, the χ or y dependence of the flux is factored out as a cosine.

B. Cylinder

A cylindrical coordinate system (r, θ, z) is used with integration in the r -direction. The infinite cylinder occupies a region $r \leq b$, $-\infty < z < +\infty$.

Again the finite case can be handled exactly as is the infinite one. If $|z| \leq \frac{H}{2}$, then the vertical dependence of the flux can be factored out as a cosine term: $\cos \frac{\pi}{H} z \cdot \phi(r)$. The vertical leakage is added to the absorption, and σ_a is replaced by $\sigma_a + \frac{\pi^2}{3\sigma_{tr} H^2} = \Sigma$ in all equations.

To integrate over the pile, as in the balance check, we must multiply the r -integral by a factor of $4H$.

Within R_ℓ , u and v are determined by

$$u_\ell(h+1) = (2n_{\ell,h} + 1) / [2n_{\ell,h} k_\ell + (1 - 2n_{\ell,h}) u_\ell(h)], \quad 0 < h < H_\ell, \quad 1 \leq \ell \leq L$$

$$v_\ell(h+1) = u_\ell(h+1) \left\{ \frac{2n_{\ell,h} - 1}{2n_{\ell,h} + 1} v_\ell(h) + \frac{2n_{\ell,h}^{\lambda_1}}{2n_{\ell,h} + 1} S_\ell^*(h) \right\}, \quad 0 < h < H_\ell, \quad 1 \leq \ell \leq L,$$

$$k = 2 + \lambda \Sigma, \quad \lambda = 3\sigma_{tr} (\Delta r)^2, \quad n = r / \Delta r.$$

At interfaces

$$u_{\ell+1}(1) = \left(2 + \frac{1}{n_{\ell+1,0}} \right) \left\{ \frac{\lambda_{\ell+1} \Delta_{\ell} r}{\lambda_{\ell} \Delta_{\ell+1} r} \left[\left(\frac{1}{n_{\ell, H_{\ell}}} - 2 \right) u_{\ell}(H_{\ell}) + k_{\ell} - \frac{1}{n_{\ell, H_{\ell}}} \right] + k_{\ell+1} + \frac{1}{n_{\ell+1,0}} \right\}$$

$$v_{\ell+1}(1) = u_{\ell+1}(1) \frac{\lambda_{\ell+1} n_{\ell+1,0}}{2n_{\ell+1,0}+1} \left\{ \frac{\Delta_{\ell} r (2n_{\ell, H_{\ell}} - 1)}{\lambda_{\ell} \Delta_{\ell+1} r n_{\ell, H_{\ell}}} v_{\ell}(H_{\ell}) + \frac{\Delta_{\ell} r}{\Delta_{\ell+1} r} S_{\ell}^*(H_{\ell}) + S_{\ell+1}^*(0) \right\} \quad 1 \leq \ell < L.$$

ϕ is determined by

$$\phi_{\ell}(h-1) = v_{\ell}(h) + u_{\ell}(h) \phi_{\ell}(h), \quad 1 \leq h \leq H_{\ell}, \quad 1 \leq \ell \leq L.$$

The boundary conditions $\left(\frac{\partial \phi}{\partial r} \right)_{r=0} = 0$ and $\phi(b) = 0$ are satisfied if we use

$$u_1(1) = 4/(k_1 + 2)$$

$$v_1(1) = \lambda_1 S_1^*(0)/(k_1 + 2)$$

$$\phi_L(H_L) = 0.$$

The effect of the radial part of the Laplacian at the axis is given by

$$\left[\frac{1}{r} \frac{\partial}{\partial r} r \frac{\partial}{\partial r} \phi(r) \right]_{r=0} = 2\phi''(0).$$

Trapezoidal integration is used to evaluate the balance check

$$E_{j,\ell}^i - E_{j,\ell}^{i-1} - \sum_{j,\ell} \int_{b_{\ell-1}}^{b_{\ell}} \phi_{j,\ell}^i r dr + \beta_j \int_{b_{\ell-1}}^{b_{\ell}} S_{f,\ell}^{i-1} r dr +$$

$$\int_{b_{\ell-1}}^{b_{\ell}} S_{s,j,\ell}^i r dr = 0,$$

where $E_{j,\ell}$ and $E'_{j,\ell}$ are the leakages radially outward through the inner and outer interfaces of R_ℓ .

$$E_\ell = (\Delta_\ell r)^2 \left[(k_\ell n_{\ell,0} + 1) \phi_\ell(0) - (2n_{\ell,0} + 1) \phi_\ell(1) - \lambda_\ell n_{\ell,0} S_\ell^*(0) \right] / 2\lambda_\ell, \quad 1 < \ell \leq L$$

$$E_1 = (\Delta_1 r)^2 (\phi_0 - \phi_1) / 2\lambda_1$$

$$E'_\ell = (\Delta_\ell r)^2 \left[(2n_{\ell,H_\ell} - 1) \phi_\ell(H_\ell - 1) - (k_\ell n_{\ell,H_\ell} - 1) \phi_\ell(H_\ell) + \lambda_\ell n_{\ell,H_\ell} S_\ell^*(H_\ell) \right] / 2\lambda_\ell, \quad 1 \leq \ell \leq L.$$

The special definition of E_1 is necessary to insure an algebraic identity, (see Appendix E-5).

C. Sphere (see Appendix E-6)

A spherical coordinate system (r, θ, ϕ) is used with integration in the r -direction. The pile occupies the region $r \leq b$.

Instead of the flux ϕ , we solve for the function $\psi = r\phi$. The quantities u and v are determined by

$$\begin{aligned} u_\ell(h_\ell + 1) &= 1/[k_\ell - u_\ell(h)], \quad 0 < h < H, \quad 1 \leq \ell \leq L \\ v_\ell(h_\ell + 1) &= u_\ell(h + 1)[v_\ell(h) + \lambda_\ell T_\ell(h)], \quad 0 < h < H_\ell, \\ &1 \leq \ell \leq L \end{aligned}$$

with

$$k = 2 + \lambda \sigma_a, \quad \lambda = 3\sigma_{tr} (\Delta r)^2, \quad T^i = n\Delta r (\beta S_f^{i-1} + S_s^i), \quad n = r/\Delta r.$$

At interfaces

$$\begin{aligned} u_{\ell+1}(1) &= 1/\left\{ \frac{1}{n_{\ell+1,0}} \left[\left(\frac{n_{\ell+1,0}}{2} + \frac{1}{6} \right) k_{\ell+1} + \frac{2}{3} + \right. \right. \\ &\left. \left(\frac{\Delta_\ell r}{\Delta_{\ell+1} r} \right)^2 \frac{\lambda_{\ell+1}}{\lambda_\ell} \left(\left(\frac{n_{\ell,H_\ell}}{2} + \frac{1}{6} \right) k_\ell - \frac{2}{3} \right) \right] - \frac{\Delta_\ell r \cdot \lambda_{\ell+1}}{\Delta_{\ell+1} r \cdot \lambda_\ell} u_\ell(H_\ell) \left. \right\} \end{aligned}$$

$$v_{\ell+1}(1) = u_{\ell+1}(1) \left\{ \frac{\Delta_{\ell} r \cdot \lambda_{\ell+1}}{\Delta_{\ell+1} r \cdot \lambda_{\ell}} v_{\ell}(H_{\ell}) + \frac{\lambda_{\ell+1}}{n_{\ell+1,0}} \left[\left(\frac{n_{\ell+1,0}}{2} + \frac{1}{6} \right) T_{\ell+1}(0) + \left(\frac{\Delta_{\ell} r}{\Delta_{\ell+1} r} \right)^2 \left(\frac{n_{\ell, H_{\ell}}}{2} + \frac{1}{6} \right) T_{\ell}(H_{\ell}) \right] \right\} \quad 1 \leq \ell < L.$$

ψ is determined by

$$\psi_{\ell}(h-1) = v_{\ell}(h) + u_{\ell}(h) \quad \psi_{\ell}(h), \quad 1 \leq h \leq H_{\ell}, \quad 1 \leq \ell \leq L.$$

The boundary conditions $\phi(0)$ finite and $\phi(b) = 0$ correspond to the conditions $\psi(0) = 0$, $\psi(b) = 0$. They are satisfied if we use

$$u_1(1) = 0$$

$$v_1(1) = 0$$

$$\psi_L(H_L) = 0$$

as initial values.

Definite integrals of functions of the form $rf(r)$ are obtained by the formula

$$\int_{b_{\ell-1}}^{b_{\ell}} f(r) r \, dr = (\Delta_{\ell} r)^2 \left[\left(\frac{n_{\ell,0}}{2} + \frac{1}{6} \right) f_{\ell}(0) + \sum_{n_{\ell,0}+1}^{n_{\ell, H_{\ell}}+1} n f_{\ell}(n) + \left(\frac{n_{\ell, H_{\ell}}}{2} - \frac{1}{6} \right) f_{\ell}(H_{\ell}) \right],$$

which is exact if $f(r)$ is linear.

The balance check is

$$E_{\ell} - E'_{\ell} - 4\pi \sigma_{a,\ell} \int_{b_{\ell-1}}^{b_{\ell}} \psi_{\ell} r \, dr + 4\pi \int_{b_{\ell-1}}^{b_{\ell}} T r \, dr = 0,$$

where E_{ℓ} and E'_{ℓ} are again the leakages radially outward through the inner and outer interfaces of R_1 .

$$E_{\ell} = \frac{4\pi (\Delta_{\ell} r)^2}{\lambda_{\ell}} \left\{ n_{\ell} (0) \psi_{\ell} (1) - \left[\left(\frac{n_{\ell,0}}{2} + \frac{1}{6} \right) k_{\ell} + \frac{2}{3} \right] \psi_{\ell} (0) + \left(\frac{n_{\ell,0}}{2} + \frac{1}{6} \right) \lambda_{\ell} T_{\ell} (0) \right\}, \quad 1 < \ell \leq L$$

$$E'_{\ell} = \frac{4\pi (\Delta_{\ell} r)^2}{\lambda_{\ell}} \left\{ \left[\left(\frac{n_{\ell, H_{\ell}}}{2} - \frac{1}{6} \right) k_{\ell} - \frac{2}{3} \right] \psi_{\ell} (H_{\ell}) - n_{\ell} (H_{\ell}) \psi_{\ell} (H_{\ell} - 1) - \left(\frac{n_{\ell, H_{\ell}}}{2} - \frac{1}{6} \right) \lambda_{\ell} T_{\ell} (H_{\ell}) \right\} \quad 1 \leq \ell < L$$

$$E'_L = -4\pi (\Delta_L r)^2 n_{L, H_L} \psi_L (H_L - 1) / \lambda_L$$

VI. OPERATING INSTRUCTIONS

A. TAPE MOUNTING:

UNISERVO 1	Tape 1	input data with ring
UNISERVO 2	Tape 2	input data with ring
UNISERVO 3	Tape 3	programs with ring
UNISERVO 4	Blank	
UNISERVO 5	Blank	
UNISERVO 6	Blank	
UNISERVO 7	Blank (silver tape)	

The blank tape on servo 7 will be used for the edited problem results and the programs expect this tape to hold at least 350 blocks.

Seven servos are required. Servos 1-6 must be able to read and 4-7 must write.

B. RUNNING PROCEDURE:

The supervisory control typewriter (SCT) should be set on normal and single-space. Set desired breakpoints (see D. Use of Breakpoint Stops). A sample supervisory control record is attached as Appendix C.

1. Initial read servo 3
2. SCT prints TYPE DATE
3. Type in date
4. SCT prints TYPE CODE
5. Type in ----- REΔOXX where XX = 06, 07, 08, 26, 27, or 28 depending on the code you wish to use
6. SCT prints TYPE TIME
7. Type in time
8. SCT prints WHAT PROB.
9. Type in PROB.Δxxxxx (xxxxx is the 5-digit problem number you want to run)
10. SCT prints PROB. yyyyy (yyyyy is the 5-digit problem number the machine is ready to do). Following the initial reading of servo 3, the machine will be ready to do the first problem on tape 1; if any problems have been run since step #1, however, the machine is ready at this point to do the next problem on tape 1.

- 11A. If the problem number you ask for does not agree (xxxxx $\neq$ yyyy) with the problem number the machine is ready to do, the SCT prints WRONG PROB. and the machine will stop on a 90 000 order. When you skip this stop, the SCT prints WHAT PROB. again allowing you to make a choice of problem. Type in PROB. Δ zzzzz (zzzzz = 5-digit problem number of problem that will be done). SCT prints PROB. yyyy and if yyyy $\neq$ zzzzz the machine will search for problem zzzzz input on tape 1, locate it and print PROB. zzzzz (see breakpoint 8 operation); if yyyy = zzzzz the SCT prints PROB. yyyy, in either case going on to step 12.
- 11B. If the problem number you ask for does agree (xxxxx = yyyy) with the problem number of the problem the machine is ready to do, the SCT prints PROB. yyyy and goes on to step 12.
12. SCT prints X-SEC CALC STARTING
13. SCT prints X-SEC CALC ENDING
14. SCT prints PRELIM 2-0
15. SCT prints PRELIM 2-1
16. SCT prints PRELIM 2-2
17. SCT prints PRELIM 2-3
18. SCT prints PRELIM 2-4
19. The iterative part of the program is next -- the machine proceeds through an outward and an inward calculation for each energy group. Should a programmed overflow occur, the machine will automatically rescale all pertinent storages ($r + 1 \rightarrow r$) causing the SCT to print RESCALE. If the calculation of the neutron conservation equation yields a value between 10^{-6} and 10^{-5} (for RE-6) or a value between 10^{-5} and 10^{-4} (for RE-7, 8, 26, 27, 28), the SCT will print BAL CK 0 ℓ , (ℓ = the region index). If the value of the equation is $< 10^{-5}$, or 10^{-6} in the case of RE-6, nothing will print on the supervisory control record.
20. Each time the program finishes a calculation through the energy groups, the SCT prints SOURCE, followed by the value of $F \cdot 10^{-1}$.
21. When at this point the values of F and $(IS_f)_\ell$ have converged, the SCT prints CONVERGED and the value of $c \cdot 10^{-1}$ used. If the convergence criteria are not met, the machine returns to step 19.

22. When the value of c is the specified critical value, the SCT prints CRITICAL and proceeds. If the criticality condition is not met, the machine will compute a new value of c and return to step 19.
23. SCT prints EDIT ROUTINE
24. SCT prints END BC followed by the block count $\cdot 10^{-11}$. This block count is the number of blocks on tape 7.
25. The UNIVAC returns to step 6, ready to do the next problem on tape 1.

C. PROGRAMMED STOPS:

1. CROSS SECTION ERROR: This check, occurring between steps 12 and 13 of the running procedure, is included in the programs to show up errors in transcription of cross section data to tape 2 form sheets and from form sheets to the tape. If there is a discrepancy greater than 10^{-6} between the sum of the fuel and diluent cross sections, other than total, and $\sum_{z=1}^Z v_{z,l}^F \sigma_{tot_z}^j$ plus $\sum_{z=1}^Z v_{z,l}^D \sigma_{tot_z}^j$, the SCT prints X-SEC ERR j , followed by $|\text{error} \cdot 10^{-5}|$ and $j \cdot 10^{-11}$, the energy group index. If you wish to continue in spite of this error, clear C and go on until the SCT prints COMMAND then type in ____; U,435.
2. BALANCE CHECK ERROR: If the error in the balance check equation is greater than 10^{-5} for RE-6, or greater than 10^{-4} for RE-7, 8, 26, 27, 28, the machine will type out BAL CK 01 for RE-6, 8, 26, 28, or BAL CK 00 for RE-7, 27 and stop, 90 000 at 002. Execute the next order (U,856) with the L register selected and the SCT prints the value of the balance equation. If you wish to continue in spite of this error, type in ____; U,022 for RE-6, 8, 26, 28 or ____; U,239 for RE-7, 27.
3. "TAPE 7 FULL" STOP: A block count of the edited results written on tape 7 is kept at 009. When tape 7 is full, the machine clears the block count to zero and stops, 90 000 at 019, causing the SCT to print TAPE 7 FULL. Tape 7 should be removed for printing and a blank mounted on servo 7. Now, you may skip the stop and the program will continue.

D. USE OF BREAKPOINT STOPS

1. BREAKPOINT 2: This breakpoint is used throughout the preliminary 2 calculations, steps 15 - 17 of the running procedure. Its use, however, in general operation is restricted to its first appearance, immediately after the SCT typeout PRELIM 2-1. At this point, the quantities in the final block of the problem's tape 1 input may be changed; they are in the memory locations specified on the final page form sheet. ($\bar{H}$ and $\bar{B}$ are at 780, $\bar{c}^1$ at 781, $\bar{\delta}$ at 782, and $\bar{\epsilon}$ at 783.) To make a change, force transfer on this breakpoint. The SCT will print COMMAND. Type in 50, M; 10, M with M = address of the quantity you wish to change. The quantity as it appeared on tape 1 will be printed on the SCT and you may type in the value you wish inserted in place of this. Make all changes in this manner, and when finished skip the 90,000; U, 856 orders.

This breakpoint is especially useful when, because of trouble or time, it is necessary to restart a problem (see RESTARTING A PROBLEM); or to reset the block count (009) to zero after removing tape 7.

2. BREAKPOINT 3: This breakpoint appears in the source calculation, step 20. For RE-6, 7, 26, 27, it will cause the machine to stop after printing $F \cdot 10^{-1}$. For RE-8, 28, it stops previous to this type out. This breakpoint is used during the iterative part of the problem should you wish to change δ or ϵ , the convergence and criticality criteria. The change here is accomplished as for breakpoint 2, by a forced transfer to the COMMAND routine. δ is in memory location 896. ϵ is in memory location 897.
3. BREAKPOINT 8: This breakpoint occurs in step 11A when the machine is preparing to search for the problem number you have typed in. The usual search procedure is to rewind tape 1 and search from the beginning of the tape, forcing transfer on breakpoint 8, skips the rewind order and searches forward on the tape. To use this breakpoint you must know the order in which your problem data are written on tape 1.
4. BREAKPOINT 9: This breakpoint occurs after step 24. Forcing transfer at this breakpoint causes the SCT to print the code identification and call for a type in of ----- RE Δ OXX, with XX = the code identification to be used for the next problem. The machine locates the code desired and proceeds to step 25.

E. IN CASE OF TROUBLE:

1. SERVICE ROUTINES: A COMMAND routine is in the memory at all times. FILL and EMPTY routines are in the memory except for large problems where $M_1 * + (4 + G)N + (4 + 2G)L > 842$. The COMMAND routine may be reached by clearing C, the control counter. When the SCT prints COMMAND, any pair of orders you wish executed may be typed in. The machine executes these orders and stops; skipping this stop causes the SCT to print COMMAND, requesting another order unless you execute a transfer out of the routine.

The FILL routine may be reached by a type-in of ----; U, 847 within the COMMAND routine. This causes the SCT to print FILL. Now type in 10, M; ----, where M is the first address you wish to fill. After the SCT carriage returns you type in the word you want entered in M. At the next request for a type-in, type the word you wish entered in M + 1, etc. The EMPTY routine works in a similar manner. It is reached by a type-in of ----; U, 848 within the COMMAND routine. This causes the SCT to print EMPTY. Type in 50, M; ----, where M is the address of the first word you wish printed on the supervisory control record. The routine will automatically continue printing M + 1, M + 2, etc. until you set the , breakpoint switch, which will stop the routine.

2. SERVO TROUBLE: During certain portions of the problem, the position of some of the tapes is irrelevant. If servo trouble occurs at these times, the tape may be rewound without damage to the problem. In case of servo trouble at periods when the position of the tape is relevant, it is best to follow the restart procedure.

A listing of irrelevant periods for the various servos follows:

SERVO 1 -- between PRELIM 2-1 type-out and END BC type-out this tape may be rewound.

SERVO 2 -- between X-SEC CALC ENDING type-out of a problem and the WHAT PROB. type-out of the next problem this tape should be in the rewound position.

SERVO 3 -- the position of this tape is always relevant.

- SERVO 4 -- between the CRITICAL type-out of one problem and the PRELIM 2-2 type-out of the following problem this tape may be rewound.
- SERVO 5 -- this tape is in the rewind position between the CRITICAL type-out of one problem and the X-SEC CALC STARTING type-out of the next, and may be considered blank.
- SERVO 6 -- this tape will be in the rewind position from the end of a problem to the PRELIM 2-4 type-out of the next, and may be considered blank.
- SERVO 7 -- between the end of one problem and the EDIT ROUTINE type-out for the next should trouble occur with this servo, the tape may be rewound and removed for printing, the block count at 009 set to zero and a blank tape mounted. If trouble occurs during the editing and the memory and data on tape 6 have not been lost, the edit can be restarted on the new tape 7.

3. RESTARTING:

- a. PROBLEM. To restart a problem rewind all tapes except 7 and start from step 1. If the supervisory control record for the problem has printed CONVERGED and the value of $c \cdot 10^{-1}$ you may take advantage of this by depressing breakpoint switch 2. When you reach this breakpoint, force transfer to the COMMAND routine and type into 781 the last value of $c \cdot 10^{-1}$ that was printed. For RE-8, 28 the procedure is slightly different. First print out 780 and 781, if they are equal type the last value of $c \cdot 10^{-1}$ that was printed out into each. If the two numbers are different, type the last value of $c \cdot 10^{-1}$ into 781 only. To return to the program go through the 90,000; U, 856 orders and execute the next order (at memory location 859).
- b. EDIT. If you have servo trouble with either servo 6 or 7 during the edit routine and have lost your place on either tape, you may restart the edit. Tape 3 must be positioned. For RE-6, ready to read block 21, RE-7, ready to read block 48, RE-8, ready to read block 72, RE-26, ready to read block 96, RE-27, ready to read block 123, RE-28, ready to read block 147. Rewind tape 7 and remove it for printing. Mount a blank on servo 7. Clear C to transfer to the COMMAND routine.

When the SCT prints COMMAND, type-in Y, 970; Z, 100. Then type-in and execute 33, 920; 33, 920 -- follow this by a - - - - ; U, 920 order. The programs will proceed from the CRITICAL type-out.

F. INFORMATION NEEDED FOR PRINTING TAPE 7:

Narrow paper

Margin: 10 from sprocket holes

T1: 13 from margin

T2: 18 from T1

T3: 15 from T2

T4: 15 from T3

Double space.

No heading.

Breakpoint printer stop at top of each page.

Two printer stops at end of each problem.

The problems, in order, on this tape are _____ .

Block count is _____ .

The last two quantities should be obtained from the supervisory control record.

G. CONTENTS OF TAPES:

1. Tape 1 contains problem input data (see Section III Input Data).
2. Tape 2 contains cross section input data (see Section III Input Data) plus 2 irrelevant blocks.
3. Tape 3 contains the code (151 blocks containing RE-6, 7, 8, 26, 27, and 28 code).
4. Tape 4 contains code (1 block -- this is block 9 of RE-6, 7, 27; block 8 of RE-8, 26, 28).
5. Tape 5 --

PROGRAM

OF BLOCKS

RE-6, 8

$$\left[\frac{(11 + G) \cdot L \cdot J}{30} \right] + 2$$

<u>PROGRAM</u>	<u># OF BLOCKS</u>
RE-7	$\left[\frac{(13+G) \cdot L \cdot J}{30} \right] + 2$
RE-26, 28	$\left[\frac{(12+G) \cdot L \cdot J}{30} \right] + 2$
RE-27	$\left[\frac{(14+G) \cdot L \cdot J}{30} \right] + 2$

For the real solution programs, the data on tape 5 are in order of increasing j , and for each j the following quantities are given, first in order of increasing ℓ for $\ell = 1, 2, \dots, L$: $b_{\ell-1}^{(6)}, \Delta_{\ell}^{(6)}, H_{\ell}, s_{\ell}, \Delta_{\ell-1}/\Delta_{\ell}, \beta_j, \lambda_{\ell}^F, \lambda_{\ell}^D, \sigma_{a_{\ell}}^F, \sigma_{a_{\ell}}^D, 3\sigma_{tr_{\ell}}^F, 3\sigma_{tr_{\ell}}^D$, then, in order of decreasing ℓ for $L, L-1, \dots, 1$ with the addition of $\nu\sigma_{f_{\ell}}^F, \nu\sigma_{f_{\ell}}^D, \sigma_{in_{\ell}}^{1F}, \sigma_{in_{\ell}}^{1D}, \dots, \sigma_{in_{\ell}}^{gF}, \sigma_{in_{\ell}}^{gD}, \dots, \sigma_{in_{\ell}}^{GF}, \sigma_{in_{\ell}}^{GD}$ for each ℓ .

For the adjoint solution programs, RE-26, 27, 28, tape 5 is in order of decreasing j and $\nu\sigma_{f_{\ell}}^F, \nu\sigma_{f_{\ell}}^D$ are written in order of increasing ℓ as well as in order of decreasing ℓ .

6. Tape 6 data is written in order of increasing j for the real solutions and in order of decreasing j for the adjoint ones. Tape 6 contains in order of decreasing ℓ : $r, \phi_{\ell, H-1}, r, \phi_{\ell, H-2}, r, \phi_{\ell, H-3}, \dots, r, \phi_{\ell, 0}, r, (I\phi)_{\ell}, r, E_{0\ell}$, and for $\ell = 1$ in programs RE-6, 8, 26, 28, r, E_{i_1} . r is the scale factor r that was used when the succeeding quantity was computed.

<u>PROGRAM</u>	<u># OF BLOCKS</u>
RE-6, 8, 26, 28	$\left[\frac{J[(N+2L)+1]}{30} \right] + 2$
RE-7, 27	$\left[\frac{J \cdot (N+2L)}{30} \right] + 2$

7. Tape 7 contains the edited output data. The number of blocks $\cdot 10^{-11}$ on tape 7 is written in memory location 009.

(6) These quantities are on tape 5 for the spherical geometry programs RE-7, 27 only.

VII. FLOW DIAGRAMS

Since the cylinder program was the first UNIVAC program completed, it has been treated as the basic program and differences created by the use of spherical and plane geometry have been treated as modifications. The adjoint cases were, in turn, treated as modifications of the real programs for the three geometries.

PRELIMINARY #0

ENTERED VIA S₁ (000)

(COMMAND ROUTINE)

$$D_0^P = 90,000, U, 856$$

$$D_1^P = \cancel{\text{TYPE}} \Delta \text{DATE} \Delta \Delta$$

$$D_2^P = \cancel{\text{TYPE}} \Delta \text{CODE} \cancel{\text{TYPE}}$$

OVERFLOW ROUTINE - S_1

IF OVERFLOW OCCURS ON LINE η THIS TRANSFERS TO LINE
 $\eta + 2$ ONLY rX IS AFFECTED

SEE RE-7,8,27,28 MODIFICATIONS

PRELIMINARY #1

4/9

RE-7,8,27,28

PRELIMINARY #1

(MODIFICATION FOR SCALING OF $\Delta l_{-1}/\Delta l$)

PRELIMINARY #1 CONT'D.

PRELIMINARY #1 CONT'D.

SEE RE-7, 27 MODIFICATIONS

PRELIMINARY #1 CONT'D.

RE-7,27

PRELIMINARY #1

(MODIFICATION TO READ IN EXTRA BLOCK OF X-SEC CALC. CODE)

PRELIMINARY #1 CONT'D.

PRELIMINARY #1 CONT'D.

X-SECTION CALCULATION

X-SECTION CALCULATION

X_0 CONT'D.

X-SECTION CALCULATION

X-SECTION CALCULATION

X_1 CONT'D.

X-SECTION CALCULATION

READ FOR NEXT TYPE X-SECTIONS AND INPUT AS REQUIRED

X-SECTION CALCULATION

PREPARATION OF σ^F 'S AND σ^D 'S FOR EACH TYPE OF X-SECTION

X-SECTION CALCULATION

X-SECTION CALCULATION
CHECK OF σ^F AND σ^D CALCULATION

X-SECTION CALCULATION

SCALING

SEE RE-7, 26, 27, 28 MODIFICATIONS

X-SECTION CALCULATION

PREPARATION OF TAPE #5

X-SECTION CALCULATION

RE - 7, 27

X-SECTION CALCULATION
EXTRA TAPE #5 PREPARATION

$$K = * [M(\bar{b}_0) - M(H_1)] + [M(\bar{b}_1) - M(s_1)] *$$

X-SECTION CALCULATION

X_6 CONT'D

X-SECTION CALCULATION

WRITE FOR NEXT OUTPUT DATA AND OUTPUT
AS REQUIRED

RE-6, 26

PRELIMINARY #2

$$D_{201}^P = 000,000; B, M(\bar{b}_1)^{-1}$$

RE-7, 27

PRELIMINARY #2

$$D_{201}^P = 000,000; B, M(\bar{b}_1)^{-1}$$

RE-8, 28

PRELIMINARY #2

PRELIMINARY #2
COMPUTATION OF $Y_L^0, \overline{F^1, 0}$

RE-6, 26

PRELIMINARY #2
COMPUTATION OF $Y_{\ell}^0, \overline{F^1, 0}$

RE-7, 27

PRELIMINARY #2

COMPUTATION OF $Y_L^0, \overline{F^1, 0}$

RE-7, 27

PRELIMINARY #2

COMPUTATION OF $Y_L^0, \overline{F^{1,0}}$

PRELIMINARY #2

COMPUTATION OF γ_λ^0 AND $\overline{F^{1,0}}$

PRELIMINARY #2
PART OF TAPE 4 PREPARATION

PRELIMINARY #2
TAPE 4 PREPARATION

SEE RE-8, 28 MODIFICATION

PRELIMINARY #2
TAPE 4 PREPARATION

PRELIMINARY #2

(MODIFICATION TO NORMALIZE TAPE 4 PREPARATION TO VOL. OF REACTOR
RATHER THAN VOL. OF CORE)

RE-6, 26

PRELIMINARY #2

CALCULATION OF INWARD PARAMETERS

PRELIMINARY #2

CALCULATION OF INWARD PARAMETERS

PRELIMINARY #2

RE-7, 27

CALCULATION OF INWARD PARAMETERS AND $\bar{\Delta}_\lambda$ 'S FOR INITIAL SOURCE COMPUTATION

PRELIMINARY #2

CALCULATION OF $f_6(L, H)$ AND $g_3(L)$

RE-8, 28

PRELIMINARY #2

CALCULATION OF OUTWARD-INWARD PARAMETERS

$$C_{35.5,.6} = C, 990; L, M(\overline{b}_1) - 1^*$$

$$C_{36.1,.2} = 000, 000; B, M(\overline{H}_1) - 1^*$$

PRELIMINARY #2

CALCULATION OF OUTWARD-INWARD PARAMETERS

PRELIMINARY #2
CALCULATION OF OUTWARD-INWARD DUMMIES

SEE RE-7, 27 MODIFICATIONS

(920)

PRELIMINARY #2

RE-7, 27

CALCULATION OF OUTWARD-INWARD DUMMIES

91

SEE RE-7, 27 MODIFICATIONS

PRELIMINARY #2

$$D_{240}^P = \cancel{X} \text{ PRELIM } \Delta 2-4 \cancel{X}$$

$$D_{241}^P = -00 \ 000 \ 000 \ 003$$

PRELIMINARY #2

$$D_{240}^P = \cancel{\Delta} \text{ PRELIM } \Delta 2-4 \cancel{\Delta}$$

$$D_{241}^P = -00,000,000,003$$

SEE RE-7, 27 MODIFICATIONS

PRELIMINARY #2

COMPUTATION OF INITIAL SOURCE AND INITIAL CONDITIONS

PRELIMINARY #2

COMPUTATION OF INITIAL SOURCE AND INITIAL CONDITIONS (MODIFICATION
OF RE-6 TO SAVE ΔL 'S FOR INITIAL SOURCE COMPUTATION)

SEE RE-7, 27 MODIFICATIONS

PRELIMINARY #2

COMPUTATION OF INITIAL SOURCE

$$D_{250}^P = B, 990; C, 000$$

$$D_{251}^P = B, 991; C, 000$$

PRELIMINARY #2

RE-7, 27

COMPUTATION OF INITIAL SOURCE

ALTERATION OF OUTWARD DUMMY; COMPUTATION OF $f_8(L, H)$ CLEARING OF 830-839

COMPUTATION OF INITIAL SOURCE

98

RE-7, 27

PRELIMINARY #2
COMPUTATION OF INITIAL SOURCE

99

RE-7, 27

PRELIMINARY #2

COMPUTATION OF INITIAL SOURCE

RESCALE ROUTINE

RESCALE ROUTINE

$$D_{20}^s = 099,400, B; 992$$

$$D_{21}^s = -10,000, C; 992$$

$$D_{22}^s = 0XXX00; B, M(\overline{v}_{1,1})$$

$$D_{23}^s = -10,000; C, M(\overline{v}_{1,1})$$

$$XXX = 1000 - (3+G)N - (4+2G)L$$

J-ROUTINE

RE-6, 8, 26, 28

SEE MODIFICATION RE-8, 26, 28

INPUT TAPE MONITOR

FOR OUTWARD:

FOR INWARD:

INPUT TAPE MONITOR

 RE-7, 27
 SEE RE-27 MODIFICATION

FOR OUTWARD:

FOR INWARD:

INPUT TAPE MONITOR (MODIFICATION TO DOWNSCALE $\bar{B}$)

RE-8 MODIFICATION

FOR OUTWARD:

$x = 6-G$

FOR INWARD: 40

RE-26,27,28 MODIFICATION

INPUT TAPE MONITOR

 $D_{30}^S = A96, ZZ+; C, 980$

OUTWARD RUN

RE-6, 26

RE-6
SEE RE-26 MODIFICATION

OUTWARD RUN

$$C_1 = 0.000250$$

$$C_3 = 0.000005$$

$$C_5 = C, M(\overline{u}_{l,1}); G, M(\overline{v}_{l,1})$$

$$C_6 = M, M(\overline{S}_{f_{QH}}); A^*, M(\overline{S}_{I_{O,H}})$$

RE-26 MODIFICATION

OUTWARD RUN

$$C_1 = 2.5 \times 10^{-4}$$

$$C_3 = 5 \times 10^{-6}$$

$$C_5 = C, M(\overline{u}_{1,1}); G, M(\overline{v}_{1,1})$$

$$C_6 = M, M(\overline{S}_{f_{0,H}}); F, M(\overline{S}_{IN_{0,H}})$$

OUTWARD RUN

 RE-7, 27
 SEE RE-27 MODIFICATION

RE-27 MODIFICATION

OUTWARD RUN

$$C_6 = M, M(\overline{T_{f_{1,0}}}); F, M(\overline{T_{IN_{1,0}}})$$

OUTWARD RUN

RE-7, 27
SEE RE-27 MODIFICATION

RE-27 MODIFICATION

OUTWARD RUN

RE-8, 28
SEE RE-28 MODIFICATION

OUTWARD RUN

RE-28 MODIFICATION

OUTWARD RUN

OUTWARD RUN

OUTWARD RUN

RE-8, 28

OUTWARD RUN

INWARD RUN

RE-6, 26

INWARD RUN

RE-7, 27

/21

INWARD RUN

RE-7, 27

INWARD RUN

RE-6, 8, 26, 28

CALCULATION OF $\overline{\varphi}_h$:

$$D_{10}: [L, 992; M, M(\overline{u}_{L,H})] + 1^*$$

$$D_{11}: [D, 990; A, M(\overline{v}_{L,H})] + 1^*$$

CALCULATION OF $\overline{\psi}_h, \overline{\varphi}_h$:

RE-6, 8, 26, 28

BALANCE CHECK

$$K_{20} = \text{RBA LAC K}\Delta\Delta \Delta 01$$

BALANCE CHECK

COMMAND ROUTINE VIA 000

$$K_{20} = \cancel{R}BA \ L\Delta C \ K\Delta\Delta \ \Delta 00$$

127

RE-6, 26

CALCULATION OF $f_7(l, h)$: SUMMATION OF $\overline{I\varphi}$:

CALCULATION OF $f_7(\ell, h)$

RE-7, 27

SUMMATION OF $\bar{I}_\varphi$:

CALCULATION OF $f_5(l, h)$ SUMMATION OF $\bar{I}\varphi$:

RE-6, 8, 26, 28

CALCULATION OF $Z_{l,h}^g$; $Q_{l,h}$ $g = 1, 2 \dots G$

CALCULATION OF $z_{l,h}^g, Q_{l,h}$ $g = 1, 2 \dots G$

RE-6, 8, 26, 28

SEE MODIFICATION RE-26, 28

CALCULATION OF $P_L^g, Y_L; g = 1, 2 \dots G$ RE-8
(051) RE-6
(128)

$$D_{60} = A^-, M(P_L^2); C, M(P_L^1) + *1*$$

$$D_{61} = A^-, M(Y_L); C, M(Y_L) + *1*$$

$$D_{62} = A^-, M(P_L^2); C, M(P_L^1) + *1*$$

$$D_{63} = A^-, M(Y_L); C, M(Y_L) + *1*$$

RE-7, 27

SEE MODIFICATION RE-27

CALCULATION OF $P_L^g, Y_L; g = 1, 2 \dots G$

$$D_{55}^1 = A-, M(P_L^2); C, M(P_L^1) + *1*$$

$$D_{5A}^1 = A-, M(Y_L); C, M(Y_L) + *1*$$

$$D_{55}^2 = A-, M(P_L^2); C, M(P_L^1) + *1*$$

$$D_{5A}^2 = A-, M(Y_L); C, M(Y_L) + *1*$$

RE-26, 27, 28 MODIFICATION

CALCULATION OF P_l^g , Y_l , $g = 1, 2 \dots G$

RE-6, 8, 26, 28

SEE MODIFICATION RE-26, 28

CALCULATION OF $\bar{I}_\ell$ RE-8
(136)RE-6
(142)

$$D_{70} = M, M(\bar{I}S_{f_L}); A-, M(\bar{I}S_{IN_L})$$

RE-7, 27

SEE MODIFICATION RE-27

CALCULATION OF $\overline{I}_l$

$$D_{7,1} = M, M(\overline{IS}_{f_L}); A-, M(\overline{IS}_{IN_L})$$

RE-26, 27, 28 MODIFICATION

CALCULATION OF $\bar{I}_L$

FOR RE-26, 28: $D_{70} = M, M(\overline{IS_{fL}}^*); F, M(\overline{IS_{INL}})$

RE-27: $D_{71} = M, M(\overline{IS_{fL}}^*); F, M(\overline{IS_{INL}})$

RE-6, 8, 26, 28

SEE MODIFICATION RE-8, 28

CALCULATION OF $\bar{E}$, $\bar{E}_1^I$ FOR $\bar{E}$:

(151)

FOR $\bar{E}_1^I$

(163)

CALCULATION OF $\bar{E}_\lambda$

141

RE-7, 27

CALCULATION OF $\bar{E}_L^0 = \bar{E}_{\ell+1}$

CALCULATION OF $\bar{E}_\lambda$

$$f_7 = 1/2 (f_7(\lambda, 0) + 1/3 \cdot 10^5 g_3 \bar{\psi}_{\lambda, 0})$$

$$\bar{E}_\lambda = \frac{2 \{ f_6(\bar{\psi}_{\lambda, 0} - \bar{\psi}_{\lambda, 1}) + g_3 \bar{\psi}_{\lambda, 0} \}}{(.01)(\bar{\lambda}_l)}$$

$$\frac{+ 2\sigma_a f_7 \quad - \frac{\bar{T}_{\lambda, 0}^* (f_6 + 1/3 g_3)}{.01}}{.001}$$

RE-7, 27

CALCULATION OF $\bar{T}_{l,0}$

WRITE-OUT

$D_{110} = W40, 860; B, \psi WZ$

RE-7,27

WRITE-OUT

$$D_{111} = G_{40}, M(x_0); C, M(x_1)$$

CALCULATION OF $\bar{T}_{l,h}$

CALCULATION OF $\bar{S}_{f_{l,h}}$

RE-7, 27

SOURCE ROUTINE

100

SOURCE ROUTINE

RE-8,28

COMPUTATION OF F^m, i AND F^m, i

(MODIFICATION TO NORMALIZE TO VOL. OF REACTOR RATHER THAN VOL. OF CORE)

SEE MODIFICATION FOR RE-8, 28

SOURCE ROUTINE
CONVERGENCE TESTS

RE-8,28

SOURCE ROUTINE CONVERGENCE TESTS

(MODIFICATION TO ELIMINATE CONVERGENCE TEST ON $\bar{F}^m, i$
AND TO ALLOW ITERATION ON BUCKLING)

$$D_{110} = L, 895; M, M(1S_{f1}) - 1^*$$

$$D_{111} = Bxx, M(Y_1) - 1; U, 929$$

$$xx = 99 - L$$

SEE RE-7,27 MODIFICATIONS

SOURCE ROUTINE

CRITICALITY TEST

RE-7,27

SOURCE ROUTINE
CRITICALITY TEST

SOURCE ROUTINE
COMPUTATION OF NEW SOURCE

SEE MODIFICATION RE-8,28

SOURCE ROUTINE

COMPUTATION OF NEW CONCENTRATION

SOURCE ROUTINE
COMPUTATION OF NEW CONCENTRATION
(TO ALLOW ITERATION ON BUCKLING)

SOURCE ROUTINE

COMPUTATION OF $\overline{S}_{f\ell,h}^*$ AND $\overline{IS}_{f\ell}^*$ AND CLEARING OF $Q_{\ell,h}$ AND Y_{ℓ}

EDIT ROUTINE

EDIT ROUTINE

HEADING #1
OUTPUT

EDIT ROUTINE

SUB-HEAD #1

C1 ~~RA~~ΔXXΔXXIΔ
 C2 000001000000
 C3 ~~RA~~ΔΔΔ1ΔXXΔΔ
 C4 ~~XC~~Δ1111111111
 C5 ~~ΔX~~FΔ1111111111
 C6 ~~RA~~ΔΔΔ1ΔΔH7Δ
 C7 ΔΔΔΔΔSF711111
 C8 1ΔΔΔΔΔΔIΔSFΔ
 C9 ~~XV~~jΔ1Δ1111111111
 C10 ΔLΔΔH7ΔΔΔΔΔΔ
 C11 Δ7ΔΔΔΔΔX147Δ
 C12 ΔΔΔΔΔΔEO7ΔΔΔ
 C13 ΔΔΔE1111111111
 C14 WRONGΔ11DATE
 C15 11111111111111
 C16 001001000000
 C17 H40190000000
 C18 301 *
 C19 ~~RA~~TAPEΔ7ΔFULL
 LC1 075000000000
 C20 111111110011
 C21 000000000001
 C22 100000000000
 C23 111100111111
 C24 111111100111
 LC1 077000000000
 C26 ~~PYP~~1111111111
 C27 ~~RYR~~1111111111
 C28 ~~RE~~NDΔΔΔΔBCΔΔ
 PW1 ~~X~~PAGEΔ007111
 C38 ~~RYR~~1111111111
 C39 ~~PPPPPPPPPPPP~~
 C40 EDITROUTINE
 C41 274*
 C42 000000010000
 C45 111111111111
 C46 006000000000
 C48 002002000000
 C49 111111101111

MODIFIED FOR
RE-8 TO PRINT
SIGN DIGIT

SUB-HEAD #2

EDIT ROUTINE

EDIT ROUTINE

MODIFIED FOR RE-26, 27, 28

TO CONTINUE WITH RE-6 CODE

RE-7,27

TO CONTINUE WITH RE-7, 27 CODE

TO CONTINUE WITH RE-8, 26, 28 CODE

RE-8, 26, 28

CHANGING CODE

VIII. STORAGE CHARTS

These charts are designed to show the state of the memory at various stages in a program.

STORAGES 000-099

JOB # REX
 SECTION # PRELIMINARY #1
 TAPE(S) # 1, 3

1-10

	00	10	20	30	40	50	60	70	80	90	
0	+1	PROB. #	$H_4 \cdot 10^{-2}$	S_4	$b_4 \cdot 10^{-3}$	θ	β_4				0
1	O.F.	C*	.	.	.	θ	.		VOLUME		1
2	CODE	L*	.	.	.	θ	.		FRACTIONS		2
3	PRELIM #0	Z*	.	.	.	θ	.		077-276		3
4	000-006	G*				θ					4
5		J*				θ					5
6		*2L*				θ					6
7	DATE	$H_1 \cdot 10^{-2}$	S_1	$b_1 \cdot 10^{-3}$	θ	β_1		$v_z^{(F)}(D)$			7
8	TYPE IN PROB. #	$H_2 \cdot 10^{-2}$	S_2	$b_2 \cdot 10^{-3}$	θ	β_2					8
9	BLOCK COUNT	$H_3 \cdot 10^{-2}$	S_3	$b_3 \cdot 10^{-3}$	θ	β_3					9

17/
STORAGES 200-299

JOB # REX
SECTION # PRELIMINARY #1
TAPE(S) #1, 3

	200	210	220	230	240	250	260	270	280	290	
0						P _{1.0}			P _{4.1}	D _{4.1}	0
1		TAPE #1				P _{1.1}	TAPE #3		D _{1.1}	D _{4.2}	1
2							CODE THEN		D _{1.2}	D _{4.3}	2
3							TAPE #1		D _{1.3}	D _{2.1}	3
4						P _{1.2}	IF NECES SARY		D _{1.4}	D _{5.1}	4
5						P _{1.3}			D _{1.5}	D _{5.2}	5
6									D _{1.6}	D _{5.3}	6
7								P _{0.1}	D _{3.1}	D _{5.4}	7
8								P _{0.2}	D _{3.2}	D _{6.1}	8
9						P _{1.4}		P _{0.3}	D _{3.3}	D _{7.1}	9

STORAGES 800-899

JOB # REX
SECTION # PRELIMINARY #1
TAPE(S) # 3

172

	800	810	820	830	840	850	860	870	880	890	
0							P 1.10				0
1								P 1.16			1
2								TAPE #3	CODE		2
3											3
4									P 1.14		4
5						T	P 1.11				5
6						COMMAND					6
7					FILL						7
8					EMPTY						8
9						COMMAND EXIT					9

M STORAGES FOR X-SEC CALCULATION

	STORAGE	CONTENTS
M_0	630	σ_a^F FOR REGION 1
M_1	631	σ_a^D FOR REGION 1
M_{0+2L}	$630+2L$	$3\sigma_{tr}^F$ FOR REGION 1
M_{1+2L}	$631+2L$	$3\sigma_{tr}^D$ FOR REGION 1
M_{0+4L}	$630+4L$	$v\sigma_f^F$ FOR REGION 1
M_{1+4L}	$631+4L$	$v\sigma_f^D$ FOR REGION 1
M_{0+6L}	$630+6L$	σ_{IN}^{1F} FOR REGION 1
M_{1+6L}	$631+6L$	σ_{IN}^{1D} FOR REGION 1
$M_{0+(2+g)2L}$	$630+(2+g)2L$	σ_{IN}^{gF} FOR REGION 1
$M_{1+(2+g)2L}$	$631+(2+g)2L$	σ_{IN}^{gD} FOR REGION 1
$M_{0+(3+G)2L}$	$630+(3+G)2L$	σ_{tot}^F FOR REGION 1
$M_{1+(3+G)2L}$	$631+(3+G)2L$	σ_{tot}^D FOR REGION 1
$M_{0+(4+G)2L-2}$	$630+(4+G)2L-2$	σ_{tot}^F FOR REGION L
$M_{1+(4+G)2L-2}$	$631+(4+G)2L-2$	σ_{tot}^D FOR REGION L

$$M(\sigma_a^F) = M_0 + 2(\ell - 1) \\ = 630 + 2(\ell - 1)$$

$$M(\sigma_a^D) = M_1 + 2(\ell - 1) \\ = 631 + 2(\ell - 1)$$

$$M(3\sigma_{tr}^F) = M_{0+2L} + 2(\ell - 1) \\ = 630 + 2L + 2(\ell - 1)$$

$$M(3\sigma_{tr}^D) = M_{1+2L} + 2(\ell - 1) \\ = 631 + 2L + 2(\ell - 1)$$

$$M(v\sigma_f^F) = M_{0+4L} + 2(\ell - 1) \\ = 630 + 4L + 2(\ell - 1)$$

$$M(v\sigma_f^D) = M_{1+4L} + 2(\ell - 1) \\ = 631 + 4L + 2(\ell - 1)$$

$$M(\sigma_{IN}^{gF}) = M_{0+(2+g)2L} + 2(\ell - 1) \\ = 630 + (2+g)2L + 2(\ell - 1)$$

$$M(\sigma_{IN}^{gD}) = M_{1+(2+g)2L} + 2(\ell - 1) \\ = 631 + (2+g)2L + 2(\ell - 1)$$

$$M(\sigma_{tot}^F) = M_{0+(3+G)2L} + 2(\ell - 1) \\ = 630 + (2+G)2L + 2(\ell - 1)$$

$$M(\sigma_{tot}^D) = M_{1+(3+G)2L} + 2(\ell - 1) \\ = 631 + (3+G)2L + 2(\ell - 1)$$

175
STORAGES 000-099

JOB # REX
SECTION # X-SEC. CALC.
TAPE(S) # 3, 1

000	010	020	030	040	050	060	070	080	090
0	+ I	H ₄	S ₄	Δ_3/Δ_4	Δ_4^2	β_4	β_{14}		0
1	OVER FLOW	H ₅	S ₅	Δ_4/Δ_5	Δ_5^2	β_5	β_{15}		1
2	ROUTINE	H ₆	S ₆	Δ_5/Δ_6	Δ_6^2	β_6	β_{16}	$z = 1(1) Z$	2
3		H ₇	S ₇	Δ_6/Δ_7	Δ_7^2	β_7	β_{17}	$\lambda = 1(1) L$	3
4		H ₈	S ₈	Δ_7/Δ_8	Δ_8^2	β_8	β_{18}	FOR $\lambda \leq C$ $V_{Z,\lambda}^F; V_{Z,\lambda}^D$;	4
5		H ₉	S ₉	Δ_8/Δ_9	Δ_9^2	β_9	β_{19}	$V_{Z,\lambda+1}^F$; ETC.	5
6		H ₁₀	S ₁₀	Δ_9/Δ_{10}	Δ_{10}^2	β_{10}	β_{20}		6
7	DATE	H ₁	Δ_0/Δ_1	Δ_1^2	β_1	β_{11}	β_{20} (^F OR ^D) $V_{Z,\lambda}$		7
8	TYPED-IN PROB #	H ₂	Δ_1/Δ_2	Δ_2^2	β_2	β_{12}		FOR $\lambda > C$ $V_{Z,\lambda}^F; V_{Z,\lambda+1}^F$;	8
9	BLOCK COUNT	H ₃	Δ_2/Δ_3	Δ_3^2	β_3	β_{13}		$V_{Z,\lambda+2}^F$; ETC.	9

STORAGES 200-299

JOB # REX

SECTION # X-SEC CALC.

TAPE(S) # 3

176

	200	210	220	230	240	250	260	270	280	290	
0									P _{4.1}	D _{4.1}	0
1			VOLUME FRACTIONS						D _{1.1}	D _{4.2}	1
2			077-276						D _{1.2}	D _{4.3}	2
3									D _{1.3}	D _{2.1}	3
4									D _{1.4}	D _{5.1}	4
5									D _{1.5}	D _{5.2}	5
6									D _{1.6}	D _{5.3}	6
7								P _{0.1}	D _{3.1}	D _{5.4}	7
8								P _{0.2}	D _{3.2}	D _{6.1}	8
9								P _{0.3}	D _{3.3}	D _{7.1}	9

STORAGES 400-499

JOB # REX

SECTION # X-SEC. CALC.

TAPE(S) # 3

178

	400	410	420	430	440	450	460	470	480	490	
0						X_5		2^*	$*2$		0
1			X_4					$*2^*$	$X_{5.2}$		1
2	$X_{6.5}$					$X_{5.1}$		$*2, 1^*$			2
3		$X_{6.6}$			X_7			10^{-1}			3
4			$X_{4.1}$					10^{-2}		X-SEC COUNTER	4
5				$X_{4.2}$				10^{-3}	3^* FOR RE-26, 27, 28	j^*	5
6								$10^{-1} + 10^{-4}$		z^*	6
7							1^*	$2 \cdot 10^{-2} + 2 \cdot 10^{-5}$		l^*	7
8							$*_1$	$10^{-2} + 10^{-4}$ $+ 10^{-10}$		i^*	8
9							$*_1^*$			I	9

STORAGES 300-399

JOB # REX
SECTION # X-SEC CALC.
TAPE(S) # 3

177

	300	310	320	330	340	350	360	370	380	390	
0	X_0			$X_{0.4}$	$X_{3.1}$			$X_{3.5}$			0
1											1
2											2
3	$X_{0.1}$	$X_{1.1}$						$X_{3.6}$			3
4			$X_{0.3}$	X_2						$X_{6.4}$	4
5	X_1	$X_{1.3}$									5
6		$X_{1.2}$				$X_{3.4}$	$X_{3.3}$				6
7			P_2^0					X_6		$X_{6.3}$	7
8								$X_{6.1}$			8
9		$X_{0.2}$		X_3	$X_{3.2}$			$X_{6.2}$			9

179
STORAGES 500-599

JOB # REX
SECTION # X-SEC. CALC.
TAPE(S) # 3, 2

	500	510	520	530	540	550	560	570	580	590	
0	t ₀	x ₀	x ₁₀	x ₂₀	x ₃₀	x ₄₀	x ₅₀	y ₀	y ₁₀	y ₂₀	0
1	t ₁	x ₁	x ₁₁	x ₂₁	x ₃₁	x ₄₁	x ₅₁	y ₁	y ₁₁	y ₂₁	1
2	t ₂	x ₂					x ₅₂	y ₂		y ₂₂	2
3	t ₃	x ₃					x ₅₃	y ₃		y ₂₃	3
4	t ₄	x ₄					x ₅₄	y ₄		y ₂₄	4
5	t ₅	x ₅					x ₅₅	y ₅		y ₂₅	5
6	t ₆	x ₆					x ₅₆	y ₆		y ₂₆	6
7	t ₇	x ₇					x ₅₇	y ₇		y ₂₇	7
8	t ₈	x ₈					x ₅₈	y ₈		y ₂₈	8
9	t ₉	x ₉	x ₁₉	x ₂₉	x ₃₉	x ₄₉	x ₅₉	y ₉	y ₁₉	y ₂₉	9

180
STORAGES 600-699

JOB # REX
SECTION # X-SEC. CALC.
TAPE(S) # 3

	600	610	620	630	640	650	660	670	680	690	
0	y ₃₀	y ₄₀	y ₅₀	M ₀	M ₁₀	M ₂₀	M ₃₀	M ₄₀	M ₅₀	M ₆₀	0
1			y ₅₁	M ₁							1
2			y ₅₂	M ₂							2
3			y ₅₃	M ₃							3
4			y ₅₄	M ₄		2(4 + G) L					4
5			y ₅₅	M ₅			STORAGES FOR M'S				5
6			y ₅₆	M ₆			(630-829)				6
7			y ₅₇	M ₇							7
8			y ₅₈	M ₈							8
9	y ₃₉	y ₄₉	y ₅₉	M ₉	M ₁₉	M ₂₉	M ₃₉	M ₄₉	M ₅₉	M ₆₉	9

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STORAGES 800-899

JOB # REX

SECTION # PRELIMINARY #2-0, 2-1, 2-2, 2-3, 2-4

TAPE(S) # 3

	800	810	820	830	840	850	860	870	880	890	
0				$\overline{b}_1$					H_1	PROB#	0
1				$\overline{b}_2$						D_1^E	1
2								SOURCE-	EDIT	D_2^E	2
3					FILL,			BLOCK		$\overline{c}^{m-1}$	3
4		0'S		THRU	EMPTY, AND			(FOR TAPE 4)		$\overline{\mu}^{m-1}$	4
5		FROM PROBLEM		$\overline{b}_L$	COMMAND					$\overline{f}^{m,i-1}$	5
6		INPUT			ROUTINES			D_{20}^S	THRU	$\overline{\delta}$	6
7								D_{21}^S	H_L	$\overline{\varepsilon}$	7
8								D_{22}^S		D_{100}	8
9								D_{23}^S		D_{101}	9

NOTE: RE-7,27 LEAVE $\overline{\Delta}_\rho$ IN $\overline{b}_\rho$ STORES

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STORAGES 900-999

JOB # REX

SECTION # PRELIMINARY #2-0, 2-1, 2-2

TAPE(S) # 3

	900	910	920	930	940	950	960	970	980	990	
0			P ₂₀₁				P ₂ ²		Y ₁ ⁰	t ₀	0
1									.	t ₁	1
2									.	t ₂	2
3	SOURCE -								THRU	$\overline{b_C}$ OR t ₃	3
4	EDIT								Y _L ⁰	$\overline{F^{1,0}}$	4
5	BLOCK										5
6	FOR	TAPE 4									6
7							"P ₂₋₂ "				7
8						1*	"P ₂₋₁ "			ℓ	8
9						*1*	"P ₂₋₀ "				9

STORAGES 900-999

JOB # REX
SECTION # PRELIMINARY #2-2
TAPE(S) # 3

	900	910	920	930	940	950	960	970	980	990	
0	D ₁₁₀		P 221			P 222			Y ₁ ⁰	t ₀	0
1	D ₁₁₁				C ODE				Y ₂ ⁰	t ₁	1
2	D ₁₃₀								THRU	t ₂	2
3	D ₁₃₁								Y _L ⁰	$\overline{b_C}$ OR t ₃	3
4	D ₁₃₂									$\overline{F^{1,0}}$	4
5	D ₁₃₃									GL*	5
6	BLOCK FOR									GN*	6
7	TAPE 4							99*		G*	7
8								3*		ℓ	8
9								1*		h	9

JOB # REX

SECTION # PRELIMINARY #2-4, 2-5

TAPES(S) # 3

[illegible]

OUTWARD-INWARD STORAGE

STORAGE	CONTENTS
M_1	$\bar{u}_{1,1}$
$M_1 + N - 1$	$\bar{u}_{L,H}$
$M_1 + N$	$\bar{v}_{1,1}$
$M_1 + 2N - 1$	$\bar{v}_{L,H}$
$M_1 + 2N$	$\bar{s}_{f,1,0}$
$M_1 + 3N + L - 1$	$\bar{s}_{f,L,H}$
$M_1 + 3N + L$	$\bar{s}_{IN,1,0} = z_{1,0}^1$
$M_1 + 4N + 2L - 1$	$\bar{s}_{IN,L,H} = z_{L,H}^1$
$M_1 + 4N + 2L$	$z_{1,0}^2$
$M_1 + 5N + 3L - 1$	$z_{L,H}^2$
$M_1 + (3+G)N + (1+G)L - 1$	$z_{L,H}^G$
$M_1 + (3+G)N + (1+G)L$	$P_1^1 = \overline{IS_{IN_1}}$
$M_1 + (3+G)N + (2+G)L - 1$	$P_L^1 = \overline{IS_{IN_L}}$
$M_1 + (3+G)N + (1+2G)L - 1$	P_L^G

$$M(\bar{u}_{\ell,h+1}) = M(\bar{u}_{\ell,h}) + 1$$

$$M(\bar{u}_{\ell,1}) = M(\bar{u}_{\ell-1,H}) + 1$$

$$M(\bar{v}_{\ell,h+1}) = M(\bar{v}_{\ell,h}) + 1$$

$$M(\bar{v}_{\ell,1}) = M(\bar{v}_{\ell-1,H}) + 1$$

$$M(\bar{s}_{f\ell,h+1}) = M(\bar{s}_{f\ell,h}) + 1$$

$$M(\bar{s}_{f\ell,0}) = M(\bar{s}_{f\ell-1,H}) + 1$$

$$M(z_{\ell,h+1}^g) = M(z_{\ell,h}^g) + 1$$

$$M(z_{\ell,0}^g) = M(z_{\ell-1,H}^g) + 1$$

$$M(z_{\ell,h}^{g+1}) = M(z_{\ell,h}^g) + N + L$$

$$M(P_{\ell+1}^g) = M(P_{\ell}^g) + 1$$

$$M(P_1^{g+1}) = M(P_L^g) + 1$$

$$M(P_{\ell}^{g+1}) = M(P_{\ell}^g) + L$$

IN RE-7, 27: T_{IN} 'S STORED IN S_{IN} STORAGE

T_f 'S STORED IN S_f STORAGE

OUTWARD-INWARD STORAGE

STORAGE	CONTENTS
$M_1 + (3+G)N$ $+ (1+2G)L$	$\overline{IS}_{f_1}$
$M_1 + (3+G)N$ $+ (2+2G)L-1$	$\overline{IS}_{f_L}$
$M_1 + (3+G)N$ $+ (2+2G)L$	$Q_{1,0}$
$M_1 + (4+G)N$ $+ (3+2G)L-1$	$Q_{L,H}$
$M_1 + (4+G)N$ $+ (3+2G)L$	Y_1
$M_1 + (4+G)N$ $+ (4+2G)L-1$	Y_L

$$M(\overline{IS}_{f_{\ell+1}}) = M(\overline{IS}_{f_{\ell}}) + 1$$

$$M(Q_{\ell,h+1}) = M(Q_{\ell,h}) + 1$$

$$M(Q_{\ell,0}) = M(Q_{\ell-1,H}) + 1$$

$$M(Y_{\ell+1}) = M(Y_{\ell}) + 1$$

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STORAGES 000-099

JOB # RE-6, 26

SECTION # OUTWARD-INWARD-SOURCE

TAPE(S) # 3

	000	010	020	030	040	050	060	070	080	090	
0	S ₁	S ₂	B.P.1	⊥			* ₁ *	10 ⁻⁶	D ₅₀	D ₅₂	0
1				S ₄			*	(-*1*)	D ₅₁	D ₅₃	1
2			B.P.1 EXIT				* ₁ =10 ⁻⁵	D ₃₀ ^s	D ₆₀	D ₆₂	2
3		S ₂ EXIT			S ₄ EXIT		10 ⁻¹	D ₃₁ ^s	D ₆₁	D ₆₃	3
4		S ₃			I ₁₁		10 ⁻²	D ₄₀ ^s	g ₃ (L)	g ₃ (l)	4
5						I ₃	10 ⁻³	D ₁₁₀	f ₆ (L,H)	f ₆ (l,h)	5
6	⊥						10 ⁻⁷	10 ⁻⁴ 3σtr _{l-1} , ₉₂ FOR RE-6 D ₅₄ FOR RE-26		H _l	6
7	DATE						.5	.5 × 10 ⁻⁵	D ₁₀	S _{l,h}	7
8	r						.025	C ₅	D ₁₁	Δ _{λ-1} /Δλ	8
9	BLOCK COUNT					I ₄	001,001, 000,001	C ₆	D ₇₀	β _j	9

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STORAGES 000-099

JOB # RE-7, 27

SECTION # OUTWARD-INWARD-SOURCE

TAPE(S) # 3

	000	010	020	030	040	050	060	070	080	090	
0	S ₁	S ₂	B.P.1 EXIT	s ₃₁ EXIT t ₁₇	O ₁ , I ₁₂ EXIT		* *	10 ⁻⁶	D ₅₅ ⁰	m ₁ (l); D ₅₅	0
1				S ₄			*	(- * *)	D _{5A} ⁰	m ₂ (l); D _{5A}	1
2			B.P.1 EXIT			I ₁₃	* = 10 ⁻⁵	D ₃₀ ^s	D ₅₅ ¹	m ₃ (l); D ₅₅ ²	2
3		S ₂ EXIT	s ₃₁		S ₄ EXIT I ₁		10 ⁻¹	D ₃₁ ^s	D _{5A} ¹	m ₄ (l); D _{5A} ²	3
4		S ₃			I ₃		10 ⁻²	D ₄₀ ^s	g ₃ (L)	f ₁ (l, h); g ₃ (l)	4
5						f ₈ (l, h)	10 ⁻³	D ₁₁₁	f ₆ (L, H)	f ₃ (l, h); f ₆ (l, h)	5
6						.005	002, 002, 000, 002	b ₂ -1	D ₅₂	H ₂	6
7	DATE		s ₃₃			1/3	.5	Δ ₂	D ₁₂	S ₂ , h	7
8	r					.05	.25	C ₅	D ₁₃	Δ ₂ ⁻¹ /Δ ₂	8
9	BLOCK COUNT					2/3 · 10 ⁻³	001, 001, 000, 001	C ₆	D ₇₁	β _j	9

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STORAGES 000-099

JOB # RE-8, 28

SECTION # OUTWARD-INWARD-SOURCE

TAPE(S) # 3

	000	010	020	030	040	050	060	070	080	090	
0	S_1	S_2	B.P.1	$\perp$	$\perp$	I_3	$* \ast$	10^{-6}	D_{50}	D_{52}	0
1	$\perp$	$\perp$	$\perp$	S_4	$\perp$	I_6	$ \ast$	$-*\ast$	D_{51}	D_{53}	1
2	$\perp$	$\perp$	B.P.1 EXIT	s_{41}	$\perp$	$\perp$	$* \ast = 10^{-5}$	D_{30}^s	D_{60}	D_{62}	2
3	$\perp$	S_2 EXIT	$\perp$	$\perp$	$\perp$	$\perp$	10^{-1}	D_{31}^s	D_{61}	D_{63}	3
4	$\perp$	S_3	$\perp$	$\perp$	$\perp$	$\perp$	10^{-2}	D_{40}^s	$g(L)$	$g(\ell)$	4
5	$\perp$	$\perp$	$\perp$	$\perp$	S_4, s_{41} EXIT	$\perp$	10^{-3}	D_{110}	W		5
6	$\perp$	$\perp$	$\perp$	$\perp$	$\perp$	$\perp$	.2	∞	D_{54}	$H_{\ell, h}$	6
7	DATE	$\perp$	$\perp$	$\perp$	$\perp$	$\perp$	.5	$2 \cdot 10^{-5}$	D_{10}	S_{ℓ}	7
8	r	$\perp$	$\perp$	$\perp$	$\perp$	$\perp$	.02	C_5	D_{11}	$\Delta \ell^{-1} / \Delta \ell$	8
9	BLOCK COUNT	$\perp$	$\perp$	$\perp$	$\perp$	I_4	001,001, 000,001	C_6	D_{70}	β_j	9

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STORAGES 100-199

JOB # RE-6, 26

SECTION # OUTWARD-INWARD-SOURCE

TAPE(S) # 3

	100	110	120	130	140	150	160	170	180	190	
0	$(\pi/10)^2 \cdot 10^{-5}$	I_5				.00025					0
1	N^*					I_9		I_2			1
2	L^*				I_7				I_0 INWARD		2
3	J^*			I_1			I_8				3
4	$\frac{c^m}{c}$								INWARD		4
5									CODE		5
6											6
7									α_3 INWARD		7
8											8
9								J_2			9

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STORAGES 100-199

JOB # RE-8, 28
SECTION # OUTWARD-INWARD-SOURCE
TAPE(S) # 3

	100	110	120	130	140	150	160	170	180	190	
0	$\overline{B}$	I_5				$\perp$					0
1	N^*					I_9				K_{20}	1
2	L^*		$\perp$								2
3	J^*		i_{61}		$\perp$						3
4	$\overline{C^m}$				I_{11}				INWARD		4
5	$\perp$			$\perp$				$\perp$	CODE		5
6			$\perp$	I_7				J_2			6
7			I_1				$\perp$				7
8							I_2				8
9								I_0 INWARD			9

10-7
STORAGES 200-299

JOB # RE-6, 26

SECTION # OUTWARD-INWARD-SOURCE

TAPE(S) # 3

	200	210	220	230	240	250	260	270	280	290	
0			$O_{9.1}$	O_0 OUTWARD							0
1	α_1 INWARD										1
2			$O_{23.1}$				$O_{13.1}$				2
3				α_3 OUTWARD			$O_{14.1}$				3
4			α_4 INWARD			OUTWARD CODE					4
5					α_1 OUTWARD						5
6							α_2 OUTWARD				6
7			j_0						O_1		7
8											8
9	α_2 INWARD		j_1								9

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STORAGES 200-299

JOB # RE-7, 27

SECTION # INWARD-OUTWARD-SOURCE

TAPE(S) # 3

	200	210	220	230	240	250	260	270	280	290	
0				γ_2	γ_3					θ_2	0
1		γ_1									1
2											2
3						o_0			OUTWA RD CODE		3
4			j_2								4
5	γ_4										5
6											6
7			j_0								7
8						α_1					8
9			j_1	α							9

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STORAGES 200-299

JOB # RE-8,28

SECTION # INWARD-OUTWARD-SOURCE

TAPE(S) # 3

	200	210	220	230	240	250	260	270	280	290	
0			j_1						0_1		0
1	α_3		0_0								1
2									0_2		2
3			α_1	OUTWARD	CODE						3
4						δ					4
5											5
6		j_0									6
7											7
8											8
9					β	γ					9

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STORAGES 300-399

JOB # RE-7, 27
SECTION # INWARD-OUTWARD-SOURCE
TAPE(S) # 3

	300	310	320	330	340	350	360	370	380	390	
0											0
1	θ_3				FOR M_1 RE-27						1
2					CODE THROUGH 333	FOR RE-7					2
3					CODE THROUGH 340	FOR RE-27					3
4	θ_1			FOR M_1 RE-7							4
5											5
6	γ										6
7											7
8			O_1								8
9			I_{12}								9

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STORAGES 800-899

JOB # REX
SECTION # OUTWARD-INWARD
TAPE(S) # 3

	800	810	820	830	840	850	860	870	880	890	
0							X ₀	X ₁₀	X ₂₀	X ₃₀	0
1			M STORAGES								1
2			MAY GO THROUGH 854								2
3											3
4								OUT PUT			4
5								X' ₁ 's			5
6							COMMAND				6
7											7
8											8
9							COMMAND EXIT	X ₁₉	X ₂₉	X ₃₉	9

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STORAGES 900-999

JOB # RE-6, 26
SECTION # OUTWARD RUN
TAPE(S) # 3

992-997 RESCALED BY S_2 ROUTINE

	900	910	920	930	940	950	960	970	980	990	
0	x ₄₀	x ₅₀	y ₀	y ₁₀	y ₂₀	y ₃₀	y ₄₀	y ₅₀	$\bar{\lambda}_l$	t ₀	0
1									$\bar{\sigma}_{a,l;k,l}$	t ₁	1
2									$\bar{3}\sigma_{tr,l}$	$\bar{\varphi}_h$	2
3								FOR RE-26 $\rightarrow$ VO $\bar{f}_l$ FOR RE-6 $\rightarrow$ $\bar{3}\sigma_{tr,l-1}; g_2$			3
4	OUT PUT				INPUT	y' s			g ₁	$\bar{v}^*$	4
5	x' s								f ₁	f ₅	5
6									f ₃ (-1)	$\bar{S}^*$	6
7									f ₃	$\bar{S}_{-1}^*$	7
8									f ₄	$\bar{l}'$	8
9	x ₄₉	x ₅₉	y ₉	y ₁₉	y ₂₉	y ₃₉	y ₄₉	y ₅₉	$\bar{u}^*$	j	9

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STORAGES 900-999

JOB # RE-6, 26
SECTION # INWARD RUN
TAPE(S) # 3

992-997 RESCALED BY S_2 ROUTINE

	900	910	920	930	940	950	960	970	980	990	
0	x ₄₀	x ₅₀	y ₀	y ₁₀	y ₂₀	y ₃₀	y ₄₀	y ₅₀	$\bar{\lambda} \ell$	t ₀	0
1									$\bar{\sigma}_{a, \ell} \bar{\Sigma} \ell$	t _i IS*	1
2									$\bar{\sigma}_{tr, \ell} \bar{E}$	$\bar{\varphi}_h$	2
3									$\bar{\nu} \sigma_f \ell$	$\bar{\varphi}_{h-1}$	3
4					INPUT	y's			$\sigma^1 \ell$	$\bar{I} \varphi; \bar{I}$	4
5									$\sigma^2 \ell$	$\bar{E}^0$	5
6									$\sigma^3 \ell$	$\bar{S}^*$	6
7									$\sigma^4 \ell$	$\bar{r}_7, \bar{I}$	7
8									$\sigma^5 \ell$	ℓ	8
9	x ₄₉	x ₅₉	y ₉	y ₁₉	y ₂₉	y ₃₉	y ₄₉	y ₅₉	$\sigma^6 \ell$	j	9

STORAGES 900-999

JOB # RE-7, 27
SECTION # OUTWARD RUN
TAPE(S) # 3

992-997 RESCALED BY S₂ ROUTINE

	900	910	920	930	940	950	960	970	980	990
0	x ₄₀	x ₅₀	y ₀	y ₁₀	y ₂₀	y ₃₀	y ₄₀	y ₅₀	$\bar{\lambda}$	
1									$\bar{k}_l$	
2					INPUT			FOR RE-7 → $3\sigma_{tr}l$ FOR RE-27 → $\bar{p}_l$	$f_2(l, h)$	
3	OUT PUT				y' s			FOR RE-7 → $\bar{p}_l$ FOR RE-27 → $\bar{v}\sigma_f l$		
4		x' s							t ₁	f ₄ (l, h)
5									t ₂	
6									TEMP.	$\bar{T}^*$
7										
8										l
9	x ₄₉	x ₅₉	y ₉	y ₁₉	y ₂₉	y ₃₉	y ₄₉	y ₅₉	$\bar{\lambda}_{l-1}$	j

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STORAGES 900-999

JOB # RE-7, 27
SECTION # INWARD RUN
TAPE(S) # 3

992-997 RESCALED BY S₂ ROUTINE

	900	910	920	930	940	950	960	970	980	990	
0	x ₄₀	x ₅₀	y ₀	y ₁₀	y ₂₀	y ₃₀	y ₄₀	y ₅₀	$\overline{\lambda}_l$	t ₀	0
1									$\overline{\sigma}_{a,l}$	t ₁ , IS*	1
2									$\overline{3\sigma_{tr,l}}, E_l$	ψ_h	2
3									$\overline{\nu\sigma_{f,l}}$	ψ_{h-1}	3
4	OUT PUT				INPUT				σ'_l	$\overline{I\varphi}$	4
5		x' ₁ 'S			y' ₁ 'S				σ^2_l	$\overline{E_{l+1}}$	5
6									σ^3_l	$\overline{T^*, t_6}$	6
7									σ^4_l	f ₇	7
8									σ^5_l	l	8
9	x ₄₉	x ₅₉	y ₉	y ₁₉	y ₂₉	y ₃₉	y ₄₉	y ₅₉	σ^6_l	j	9

STORAGES 900-999

JOB # RE-8,28
SECTION # OUTWARD RUN
TAPE(S) # 3

992-997 RESCALED BY S_2 ROUTINE

	900	910	920	930	940	950	960	970	980	990	
0	x_{40}	x_{50}	y_0	y_{10}	y_{20}	y_{30}	y_{40}	y_{50}	$\bar{\lambda}_l$	t_0	0
1									$\bar{k}_l$	t_1	1
2	OUT PUT				INPUT				$3\sigma_{tr}l$	f_2	2
3		$x_1's$			$y_1's$			FOR RE-8 $\rightarrow f_1$ FOR RE-28 $\rightarrow \bar{y}_0 f_l$	f_1	t_2	3
4									f_3	f_4	4
5									h^*		5
6									t_3	$\bar{S}_{l-1,H}$	6
7									P_l		7
8									$\bar{\lambda}_{l-1}$	l^*	8
9	x_{49}	x_{59}	y_9	y_{19}	y_{29}	y_{39}	y_{49}	y_{59}	FOR RE-28 f_1		9

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STORAGES 900-999

JOB # RE-8, 28
SECTION # INWARD RUN
TAPE(S) # 3

992-997 RESCALED BY S_2 ROUTINE

	900	910	920	930	940	950	960	970	980	990	
0	x_{40}	x_{50}	y_0	y_{10}	y_{20}	y_{30}	y_{40}	y_{50}	$\bar{\lambda} \ell$	t_0	0
1									$\bar{\sigma}_{a,\ell}; \bar{\Sigma} \ell$	$t_1, \bar{I} S^*$	1
2									$\bar{\sigma}_{t,r}; \bar{E} \ell$	$\bar{\varphi}_h$	2
3		OUTPUT			INPUT				$\bar{\nu} \sigma f$	$\bar{\varphi}_{h-1}$	3
4		$x's$			$y's$				$\sigma \ell$	$\bar{S}^*$	4
5									$\sigma^2 \ell$	$\bar{E}_{\ell+1}^0$	5
6									$\sigma^3 \ell$	$\bar{I} \varphi$	6
7									$\sigma^4 \ell$	$F_5, \bar{I}$	7
8									$\sigma^5 \ell$	ℓ	8
9	x_{49}	x_{59}	y_9	y_{19}	y_{29}	y_{39}	y_{49}	y_{59}	$\sigma^6 \ell$	j	9

STORAGES 800-899

JOB # REX
SECTION # SOURCE-EDIT
TAPE(S) # 4

	800	810	820	830	840	850	860	870	880	890	
0									H ₁	PROB #	0
1		M STORAGE MAY					s ₂₀ & s ₂₁		H ₂	D ₁ ^E	1
2		GO THROUGH 854					CODE (USE D		;	D ₂ ^E	2
3					T		WHEN STORED		THRU	$\overline{C^{m-1}}$	3
4					T		AT	920)	H _L	$\overline{\mu^{m-1}}$	4
5						T		TAPE #4		$\overline{F^m, i-1}$	5
6						COMMAND		D ₂₀ ^S		$\overline{\delta}$	6
7					FILL			D ₂₁ ^S		$\overline{\varepsilon}$	7
8					EMPTY			D ₂₂ ^S		D ₁₀₀	8
9						COMMAND EXIT		D ₂₃ ^S		D ₁₀₁	9

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STORAGES 900-999

JOB # REX
SECTION # SOURCE
TAPE(S) # 4,3

	900	910	920	930	940	950	960	970	980	990	
0	D ₁₁₀				⊥					t ₀	0
1	D ₁₁₁				S ₁₃ FOR RE-6,7, 26,27	RE-6,7, 26,27		⊥		t ₁	1
2	D ₁₃₀	⊥	⊥				S ₁₂ FOR RE-8, 28	S ₁₄ FOR RE-6,7, 26,27	RE-6,7, 26,27	t ₂	2
3	D ₁₃₁	TAPE	S ₁₁			S ₁₅ FOR 28	RE-8,			t ₃	3
4	D ₁₃₂	#4			TAPE #3						4
5	D ₁₃₃						⊥				5
6	"SOURCE"						S ₁₂ FOR RE-6,7, 26,27	RE-6,7, 26,27			6
7	"CONVERGED"					S ₁₅ FOR	RE-6,7, 26,27				7
8	"CRITICAL"						S ₁₄ FOR	RE-8,28		$\overline{F^m, i}$	8
9	S ₁₀			S ₁₃ FOR	RE-8,28					$\overline{F^m, i}$	9

21
STORAGES 000-099

JOB # REX
SECTION # EDIT
TAPE(S) # 3

000	010	020	030	040	050	060	070	080	090	
0	S ₁	E ₅								0
1										1
2								e ₅₅		2
3										3
4						e ₅₉				4
5									e ₅₆	5
6						e ₅₄				6
7	DATE									7
8	r		e ₅₁							8
9	BLOCK COUNT	e ₅₂		e ₅₃	e ₅₈				C ₄₀	9

212
STORAGES 100-199

JOB # REX
SECTION # EDIT
TAPE(S) # 3

	100	120	120	120	130	140	150	160	170	180	190	
0											x_0	0
1	e_{57}		E_4	e_{41}							x_1	1
2			e_{40}				E_{10}	E_9	e_{91}	E_{11}	x_2	2
3				E_6								3
4						E_8						4
5												5
6				E_7								6
7												7
8												8
9			e_{42}							LC_0	x_9	9

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STORAGES 200-299

JOB # REX
SECTION # EDIT
TAPE(S) # 3

	200	210	220	230	240	250	260	270	280	290	
0	X ₁₀	X ₂₀	X ₃₀	X ₄₀	X ₅₀	Y ₀	Y ₁₀	Y ₂₀	Y ₃₀	Y ₄₀	0
1						Y ₁					1
2											2
3											3
4											4
5											5
6											6
7											7
8											8
9	X ₁₉	X ₂₉	X ₃₉	X ₄₉	X ₅₉	Y ₉	Y ₁₉	Y ₂₉	Y ₃₉	Y ₄₉	9

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STORAGES 900-999

JOB # REX
SECTION # EDIT
TAPE (S) # 3

	900	910	920	930	940	950	960	970	980	990	
0			E ₀	C ₁₀	C ₂₀			$(\pi/\kappa)^2 10^{-5}$			0
1			C ₁	C ₁₁	C ₂₁		C ₄₁	N*			1
2			C ₂	C ₁₂	C ₂₂		C ₄₂	L*		h*	2
3			C ₃	C ₁₃	C ₂₃		PW ₁	J*			3
4			C ₄	C ₁₄	C ₂₄			$\overline{C}^m$			4
5			C ₅	C ₁₅	LC ₁		C ₄₅	E ₁			5
6			C ₆	C ₁₆	C ₂₆		C ₄₆	E ₂			6
7			C ₇	C ₁₇	C ₂₇			E ₃		l*	7
8			C ₈	C ₁₈	C ₂₈	C ₃₈	C ₄₈	LC		$\tilde{F}^m$	8
9			C ₉	C ₁₉		C ₃₉	C ₄₉			j*	9

IX. CODE

This section contains the 151 blocks of code as written on tape 3. The code has been annotated to indicate the following:

- A. CONNECTOR ENTRY - This corresponds to the connector shown on the flow diagram.
- B. ORDER NO. - The first digit of the order number designates the corresponding box number on the flow diagram, and the digits following the decimal point indicate the position of the order in the sequence of orders corresponding to the procedures outlined in the box. L and R indicate the left and right orders.
- C. STORAGE ASSIGNMENT - This heading designates the memory location of the code word.
- D. LEFT, RIGHT, O and A - Left and right indicate the left and right commands of the word, while O and A designate the order and address or memory portions of that command.
- E. CONSTANTS STORED; LO, LA, RO, RA - This category is used to list the constants referred to by another or other portions of the program. LO, LA, RO, and RA refer to the left order, left address, right order, and right address portions of the code word, respectively.
- F. VARIABLE PARTS - Quantities which are subject to change during the program are indicated in this column. LO, LA, RO, and RA are again used to show the exact location of the variable parts.

The printer symbols that appear in the code are:

- ' = printer ignore
- Δ = printer space
- R = carriage return
- T = tabulator
- S = one character shift
- L = shift lock
- U = unshift
- P = printer stop
- B = printer breakpoint stop

MAKE-UP OF TAPE #3GC

CODE #	BLOCK #	CONTENTS OF BLOCK	MEMORY POSITION	READ IN BY
GENERAL	1	S_1, P_0 , FILL, EMPTY, AND COMMAND ROUTINES	000-059	INITIAL READ
		(FILL, EMPTY & COMMAND RESTORED FOR USE)	843-859	
6	2	$P_{1.10}, P_{1.11}, P_{1.12},$ $P_{1.14}, P_{1.15}, P_{1.16},$ $P_{1.17}, P_{1.18}$	860-919	PRELIM #0
			860-919	CODE ROUTINE
6	3	$P_1, P_{1.5}, P_{1.6}, P_{1.7},$ $P_{1.8}, P_{1.9}$	920-979	PRELIM #0
			920-979	CODE ROUTINE
6	4	$P_{1.0}, P_{1.1}, P_{1.2}, P_{1.3},$ $P_{1.4}, X_0, x_{0.1}, X_1$	250-309	PRELIM #1
6	5	$x_{0.2}, x_{1.1}, x_{1.2}, x_{1.3},$ $x_{0.3}, x_{0.4}, x_{0.5}, X_2, X_3,$ $x_{3.1}, x_{3.2}, x_{3.3}, x_{3.4}, P_2^0$	310-369	PRELIM #1
6	6	$x_{3.5}, x_{3.6}, X_6, x_{6.1},$ $x_{6.2}, x_{6.3}, x_{6.4}, x_{6.5},$ $x_{6.6}, X_4, x_{4.1}$	370-429	PRELIM #1
6	7	$x_{4.2}, X_7, X_5, x_{5.1}, x_{5.2}$	430-489	PRELIM #1
6	8	$P_{201}, P_2^1, P_{211}, P_{212},$ P_{213}, P_2^2	920-979	X-SEC CALC
6	9	TAPE 4 SKELETON: $s_{20}, s_{21}, S_{10}, s_{100}$	860-919	PRELIM #2

MAKE-UP OF TAPE #3GC

CODE #	BLOCK #	CONTENTS OF BLOCK	MEMORY POSITION	READ IN BY
6	10	CONSTANTS, DUMMIES FOR OUT-IN, I_5 , I_6	070-129	PRELIM #2
6	11	P_{221} , P_{222}	920-979	PRELIM #2
6	12	P_2^3 , P_{231} , P_{232}	920-979	PRELIM #2
6	13	S_2 , S_3 , S_4 , I_3 , I_4 , OUT-IN CONSTANTS	010-069	PRELIM #2
6	14	P_2^4	920-979	PRELIM #2
6	15	P_2^5 , P_{250} , P_{251}	920-979	PRELIM #2
6	16	I_1 , I_7 , I_9 , I_8 , I_2 , j_2 I_0 , α_3 (INWARD)	130-189	PRELIM #2
6	17	P_{252} , P_{253} , P_{254} , P_{255} , P_{256} , P_{257}	920-979	PRELIM #2
6	18	α_1 , α_2 , α_4 (INWARD) j_0 , j_1 , $O_{9.1}$, $O_{23.1}$ O_0 , α_1 (OUTWARD)	190-249	PRELIM #2
6	19	$O_{13.1}$, $O_{14.1}$, O_1 , α_2 (OUTWARD)	250-309	PRELIM #2
6	20	S_{11} , s_{110} , s_{111} , S_{12} , S_{13} , S_{14} , S_{15}	920-979	SOURCE
6	21	EDIT CONSTANTS AND E_0	920-979	SOURCE
6	22	E_5 , e_{52} , e_{51} , e_{53} , e_{58} , e_{54} , e_{59}	010-069	EDIT
6	23	e_{55} , e_{56} , e_{57} , E_4 , e_{40} , e_{42}	070-129	EDIT
6	24	e_{41} , E_6 , E_7 , E_8 , E_{10} , E_9 , e_{91} , E_{11}	130-189	EDIT

MAKE-UP OF TAPE #3GC

CODE #	BLOCK #	CONTENTS OF BLOCK	MEMORY POSITION	READ IN BY
6	25	C_1, C_2	200-259	EDIT
7	26	$P_{1.10}, P_{1.11}, P_{1.12}, P_{1.14}$	860-919	PRELIM #0 CODE ROUTINE
7	27	$P_1, P_{1.5}, P_{1.6}, P_{1.7}, P_{1.8}, P_{1.9}$	920-979	PRELIM #0
			920-979	CODE ROUTINE
7	28	$P_{1.0}, P_{1.1}, P_{1.2}, P_{1.3}, P_{1.4}, x_0, x_{0.1}, x_1$	250-309	PRELIM #1
7	29	$x_{0.2}, x_{1.1}, x_{1.2}, x_{1.3}, x_{0.3}, x_{0.4}, x_{0.5}, x_2, x_3, x_{3.1}, x_{3.2}, x_{3.3}, x_{3.4}, P_2^0$	310-369	PRELIM #1
7	30	$x_{3.5}, x_{3.6}, x_6, x_{6.1}, x_{6.2}, x_{6.3}, x_{6.4}, x_{6.5}, x_{6.6}, x_4, x_{4.1}$	370-429	PRELIM #1
7	31	$x_{4.2}, x_7, x_5, x_{5.1}, x_{5.2}$	430-489	PRELIM #1
7	32	$x_{6.0}$	860-919	PRELIM #1
7	33	$P_{201}, P_2^1, P_{211}, P_{212}, P_{213}, P_2^2$	920-979	X-SEC CALC
7	34	TAPE 4 SKELETON: $s_{20}, s_{21}, s_{10}, s_{100}$	860-919	PRELIM #2
7	35	CONST. & DUMMIES FOR OUT-IN: I_5, I_6	070-129	PRELIM #2
7	36	P_{221}, P_{222}	920-979	PRELIM #2
7	37	$P_2^3, P_{230}, P_{231}, P_{232}$	920-979	PRELIM #2
7	38	$S_2, S_3, S_4, I_3, I_{13}, \text{CONST.}$	010-069	PRELIM #2
7	39	P_2^4	920-979	PRELIM #2
7	40	P_2^5, P_{250}, P_{251}	920-979	PRELIM #2
7	41	$I_1, I_{11}, I_2, I_4, I_7, I_8, I_{10}, I_9$	130-189	PRELIM #2
7	42	$P_{252}, P_{253}, P_{254}, P_{255}$	920-979	PRELIM #2
7	43	$I_0, Y_4, Y_1, Y_2, Y_3, j_0, j_1, j_2$	190-249	PRELIM #2
7	44	OUTWARD, $O_0, \alpha_1, \alpha_2, \alpha_3, \alpha_1, Y$	250-309	PRELIM #2
7	45	OUTWARD, O_1, I_{12}	310-369	PRELIM #2
7	46	$s_{11}, s_{110}, s_{111}, s_{12}, s_{13}, s_{14}, s_{15}$	920-979	SOURCE
7	47	S_f	200-259	SOURCE
7	48	EDIT CONSTANTS AND E_0	920-979	S_f ROUTINE
7	49	$E_{57}, e_{52}, e_{51}, e_{53}, e_{58}, e_{54}, e_{59}$	010-069	EDIT
7	50	$e_{55}, e_{56}, e_{57}, E_4, e_{40}, e_{42}$	070-129	EDIT
7	51	$e_{41}, E_6, E_7, E_8, E_{10}, E_9, e_{91}, E_{11}$	130-189	EDIT

MAKE-UP OF TAPE #3GC

CODE #	BLOCK #	CONTENTS OF BLOCK	MEMORY POSITION	READ IN BY
7	52	C_1, C_2	200-259	EDIT
8	53	$P_{1.10}, P_{1.11}, P_{1.12}, P_{1.14}$	860-919	PRELIM #0
			860-919	CODE ROUTINE
8	54	$P_1, P_{1.5}, P_{1.6}, P_{1.7}, P_{1.8}, P_{1.9}$	920-979	PRELIM #0
			920-979	CODE ROUTINE
8	55	$P_{1.0}, P_{1.1}, P_{1.2}, P_{1.3}, P_{1.4}, x_0, x_{0.1}, x_1$	250-309	PRELIM #1
8	56	$x_{0.2}, x_{1.1}, x_{1.2}, x_{1.3}, x_{0.3}, x_{0.4}, x_{0.5}, x_2, x_3, x_{3.1}, x_{3.2}, x_{3.3}, x_{3.4}, P_2^0$	310-369	PRELIM #1
8	57	$x_{3.5}, x_{3.6}, x_6, x_{6.1}, x_{6.2}, x_{6.3}, x_{6.4}, x_{6.5}, x_{6.6}, x_4, x_{4.1}$	370-429	PRELIM #1
8	58	$x_{4.2}, x_7, x_5, x_{5.1}, x_{5.2}$	430-489	PRELIM #1
8	59	$P_{201}, P_2^1, P_{211}, P_2^2$	920-979	X-SEC CALC
8	60	TAPE 4 SKELETON: $s_{20}, s_{21}, s_{10}, s_{100}$	860-919	PRELIM #2
8	61	DUMMIES, CONSTANTS, I_5, i_{61}, I_1	070-129	PRELIM #2
8	62	P_{221}, P_{222}	920-979	PRELIM #2
8	63	P_2^3, P_{231}, P_{232}	920-979	PRELIM #2
8	64	$S_2, s_{22}, S_3, s_{31}, s_{33}, S_4, s_{42}, I_3, I_6, I_4$	010-069	PRELIM #2
8	65	P_2^4	920-979	PRELIM #2
8	66	P_2^5, P_{250}, P_{251}	920-979	PRELIM #2
8	67	$i_{11}, I_7, I_{11}, I_9, I_2, j_2, I_0$	130-189	PRELIM #2
8	68	$P_{252}, P_{253}, P_{254}, P_{255}, P_{256}, P_{257}$	920-979	PRELIM #2
8	69	$\alpha_3, i_N, j_0, j_1, O_0, \beta$	190-249	PRELIM #2
8	70	δ, γ, O_1, O_2	250-309	PRELIM #2
8	71	$S_{11}, s_{111}, s_{110}, S_{13}, S_{15}, s_{150}, S_{12}, S_{14}$	920-979	SOURCE
8	72	EDIT CONSTANTS, E_0	920-979	SOURCE
8	73	$E_5, e_{52}, e_{51}, e_{53}, e_{58}, e_{54}, e_{59}$	010-069	EDIT
8	74	$e_{55}, e_{56}, e_{57}, E_4, e_{40}, e_{42}$	070-129	EDIT
8	75	$e_{41}, E_6, E_7, E_8, E_{10}, E_9, e_{91}, E_{11}$	130-189	EDIT

MAKE-UP OF TAPE #3GC

CODE #	BLOCK #	CONTENTS OF BLOCK	MEMORY POSITION	READ IN BY
8	76	C_1, C_2	200-259	EDIT
26	77	$P_{1.10}, P_{1.11}, P_{1.12}, P_{1.14}$	860-919	PRELIM #0
			860-919	CODE ROUTINE
26	78	$P_1, P_{1.5}, P_{1.6}, P_{1.7},$ $P_{1.8}, P_{1.9}$	920-979	PRELIM #0
			920-979	CODE ROUTINE
26	79	$P_{1.0}, P_{1.1}, P_{1.2}, P_{1.3},$ $P_{1.4}, X_0, x_{0.1}, X_1$	250-309	PRELIM #1
26	80	$x_{0.2}, x_{1.1}, x_{1.2}, x_{1.3},$ $x_{0.3}, x_{0.4}, x_{0.5}, X_2, X_3,$ $x_{3.1}, x_{3.2}, x_{3.3}, x_{3.4}, P_2^0$	310-369	PRELIM #1
26	81	$x_{3.5}, x_{3.6}, X_6, x_{6.1},$ $x_{6.2}, x_{6.3}, x_{6.4}, x_{6.5},$ $x_{6.6}, X_4, x_{4.1}$	370-429	PRELIM #1
26	82	$x_{4.2}, X_7, X_5, x_{5.1},$ $x_{5.2}$	430-489	PRELIM #1
26	83	$P_{201}, P_2^1, P_{211}, P_{212},$ P_{213}, P_2^2	920-979	X-SEC CALC
26	84	TAPE 4 SKELETON: $s_{20}, s_{21}, S_{10}, s_{100}$	860-919	PRELIM #2

MAKE-UP OF TAPE #3GC

CODE #	BLOCK #	CONTENTS OF BLOCK	MEMORY POSITION	READ IN BY
26	85	CONSTANTS, DUMMIES FOR OUT-IN, I_5, I_6	070-129	PRELIM #2
26	86	P_{221}, P_{222}	920-979	PRELIM #2
26	87	P_2^3, P_{231}, P_{232}	920-979	PRELIM #2
26	88	S_2, S_3, S_4, I_3, I_4 , OUT-IN CONSTANTS	010-069	PRELIM #2
26	89	P_2^4	920-979	PRELIM #2
26	90	P_2^5, P_{250}, P_{251}	920-979	PRELIM #2
26	91	$I_1, I_7, I_9, I_8, I_2, j_2$ I_0, α_3 (INWARD)	130-189	PRELIM #2
26	92	$P_{252}, P_{253}, P_{254}$ $P_{255}, P_{256}, P_{257}$	920-979	PRELIM #2
26	93	$\alpha_1, \alpha_2, \alpha_4$ (INWARD) $j_0, j_1, O_{9.1}, O_{23.1}$ O_0, α_1 , (OUTWARD)	190-249	PRELIM #2
26	94	$O_{13.1}, O_{14.1}, O_1$ α_2 (OUTWARD)	250-309	PRELIM #2
26	95	$S_{11}, s_{110}, s_{111}, S_{12},$ S_{13}, S_{14}, S_{15}	920-979	SOURCE
26	96	EDIT CONSTANTS AND E_0	920-979	SOURCE
26	97	$E_5, e_{52}, e_{51}, e_{53}, e_{58},$ e_{54}, e_{59}	010-069	EDIT
26	98	$e_{55}, e_{56}, e_{57}, E_4, e_{40},$ e_{42}	070-129	EDIT
26	99	$e_{41}, E_6, E_7, E_8,$ $E_{10}, E_9, e_{91}, E_{11}$	130-189	EDIT

MAKE-UP OF TAPE #3GC

CODE #	BLOCK #	CONTENTS OF BLOCK	MEMORY POSITION	READ IN BY
26	100	C_1, C_2	200-259	EDIT
27	101	$P_{1.10}, P_{1.11}, P_{1.12}, P_{1.14}$	860-919 860-999	PRELIM #0 CODE ROUTINE
27	102	$P_1, P_{1.5}, P_{1.6}, P_{1.7}, P_{1.8}, P_{1.9}$	920-979 920-979	PRELIM #0 CODE ROUTINE
27	103	$P_{1.0}, P_{1.1}, P_{1.2}, P_{1.3}, P_{1.4}, x_0, x_{0.1}, X_1$	250-309	PRELIM #1
27	104	$x_{0.2}, x_{1.1}, x_{1.2}, x_{1.3}, x_{0.3}, x_{0.4}, x_{0.5}, x_2, x_3, x_{3.1}, x_{3.2}, x_{3.3}, x_{3.4}, P_2^0$	310-369	PRELIM #1
27	105	$x_{3.5}, x_{3.6}, x_6, x_{6.1}, x_{6.2}, x_{6.3}, x_{6.4}, x_{6.5}, x_{6.6}, x_4, x_{4.1}$	370-429	PRELIM #1
27	106	$x_{4.2}, x_7, x_5, x_{5.1}, x_{5.2}$	430-489	PRELIM #1
27	107	$x_{6.0}$	860-919	PRELIM #1
27	108	$P_{201}, P_2^1, P_{211}, P_{212}, P_{213}, P_2^2$	920-979	X-SEC CALC
27	109	TAPE 4 SKELETON: $s_{20}, s_{21}, s_{10}, s_{100}$	860-919	PRELIM #2
27	110	CONST. & DUMMIES FOR OUT-IN, I_5, I_6	070-129	PRELIM #2
27	111	P_{221}, P_{222}	920-979	PRELIM #2
27	112	$P_2^3, P_{230}, P_{231}, P_{232}$	920-979	PRELIM #2
27	113	$S_2, S_3, S_4, I_3, I_{13}, \text{CONST.}$	010-069	PRELIM #2
27	114	P_2^4	920-979	PRELIM #2
27	115	P_2^5, P_{250}, P_{251}	920-979	PRELIM #2
27	116	$I_1, I_{11}, I_2, I_4, I_7, I_8, I_{10}, I_9$	130-189	PRELIM #2
27	117	$P_{252}, P_{253}, P_{254}, P_{255}$	920-979	PRELIM #2
27	118	$I_0, Y_4, Y_1, Y_2, Y_3, j_0, j_1, j_2$	190-249	PRELIM #2
27	119	OUTWARD $O_0, \alpha_1, \odot_2, \odot_3, \odot_1, Y$	250-309	PRELIM #2
27	120	OUTWARD O_1, I_{12}	310-369	PRELIM #2
27	121	$S_{11}, s_{110}, s_{111}, S_{12}, S_{13}, S_{14}, S_{15}$	920-979	SOURCE
27	122	S_f	200-259	SOURCE
27	123	EDIT CONSTANTS AND E_0	920-979	S_f ROUTINE
27	124	$E_5, e_{52}, e_{51}, e_{53}, e_{58}, e_{54}, e_{59}$	010-069	EDIT
27	125	$e_{55}, e_{56}, e_{57}, E_4, e_{40}, e_{42}$	070-129	EDIT
27	126	$e_{41}, E_6, E_7, E_8, E_{10}, E_9, e_{91}, E_{11}$	130-189	EDIT

MAKE-UP OF TAPE #3 GC

CODE #	BLOCK #	CONTENTS OF BLOCK	MEMORY POSITION	READ IN BY
27	127	C_1, C_2	200-259	EDIT
28	128	$P_{1.10}, P_{1.11}, P_{1.12}, P_{1.14}$	860-919	PRELIM #0
			860-919	CODE ROUTINE
28	129	$P_1, P_{1.5}, P_{1.6}, P_{1.7}, P_{1.8}, P_{1.9}$	920-979	PRELIM #0
			920-979	CODE ROUTINE
28	130	$P_{1.0}, P_{1.1}, P_{1.2}, P_{1.8}, P_{1.4}, x_0, x_{0.1}, x_1$	250-309	PRELIM #1
28	131	$x_{0.2}, x_{1.1}, x_{1.2}, x_{1.3}, x_{0.3}, x_{0.4}, x_{0.5}, x_2, x_3, x_{3.1}, x_{3.2}, x_{3.3}, x_{3.4}, P_2$	310-369	PRELIM #1
28	132	$x_{3.5}, x_{3.6}, x_6, x_{6.1}, x_{6.2}, x_{6.3}, x_{6.4}, x_{6.5}, x_{6.6}, x_4, x_{4.1}$	370-429	PRELIM #1
28	133	$x_{4.2}, x_7, x_5, x_{5.1}, x_{5.2}$	430-489	PRELIM #1
28	134	$P_{201}, P_2^1, P_{211}, P_2^2$	920-979	X-SEC CALC
28	135	TAPE 4 SKELETON: $s_{20}, s_{21}, s_{10}, s_{100}$	860-919	PRELIM #2
28	136	DUMMIES, CONSTANTS, I_5, i_{61}, I_1	070-129	PRELIM #2
28	137	P_{221}, P_{222}	920-979	PRELIM #2
28	138	P_2^3, P_{231}, P_{232}	920-979	PRELIM #2
28	139	$S_2, s_{22}, S_3, s_{31}, s_{33}, S_4, s_{42}, I_3, I_6, I_4$	010-069	PRELIM #2
28	140	P_2^4	920-979	PRELIM #2
28	141	P_2^5, P_{250}, P_{251}	920-979	PRELIM #2
28	142	$i_{11}, I_7, I_{11}, I_9, I_2, j_2, I_{0IN}$	130-189	PRELIM #2
28	143	$P_{252}, P_{253}, P_{254}, P_{255}, P_{256}, P_{257}$	920-979	PRELIM #2
28	144	$\alpha_3 IN, j_0, j_1, I_{0OUT}, \beta$	190-249	PRELIM #2
28	145	δ, γ, O_1, O_2	250-309	PRELIM #2
28	146	$S_{11}, s_{111}, s_{110}, S_{13}, S_{15}, s_{150}, S_{12}, S_{14}$	920-979	SOURCE
28	147	EDIT CONSTANTS AND E_0	920-979	SOURCE
28	148	$E_5, e_{52}, e_{51}, e_{53}, e_{58}, e_{54}, e_{59}$	010-069	EDIT
28	149	$e_{55}, e_{56}, e_{57}, E_4, e_{40}, e_{42}$	070-129	EDIT
28	150	$e_{41}, E_6, E_7, E_8, E_{10}, E_9, e_{91}, E_{11}$	130-189	EDIT
28	151	C_1, C_2	200-259	EDIT

CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
P1.10	31.1	31.2	860	b	899	a	501								
	.3	.4	1	c	899	b	884								
	.5	.6	2	a	501	c	884								
	.7	.8	3	b	891	a	501								
	31.9	31.10	4	c	891	u	872								
P1.11	32.1	33.1	5	50	911	10	008								
	34.1	35.1	6	50	010	l	008								
	35.2	35.3	7	b	010	q	922								
	36.1	36.2	8	50	912	u	870								
	37.1	37.2	9	-		u	905								
	38.1	38.2	870	90	000	b	913								
	.3	.4	1	c	868	u	865								
P1.16	39.1	39.2	2	b	010	50	010								
	.3	.4	3	.3	000	.3	000								
	39.5	40.1	4	c	010	12	000								
	41.1	42.1	5	32	510	b	010								
	42.2	.3	6	l	510	q	878								
	.4	.5	7	-		u	875								
	43.1	43.2	8	42	510	42	510								
	.3	44.1	9	30	510	13	000								
	45.1	45.2	880	l	017	d-	037		M(H ₁)		M(b ₁)				
	.3		1	c	047	-			M(Δ ₁)						
	46.1	46.2	2	b	899	a	914								
	47.1	47.2	3	c	899	u	896								
P1.14	50.1	50.2	4	b990	37	c	830					xx	M(b ₂)		829 + l
	51.1	51.2	5	b	884	a	914								
	52.1	52.2	6	c	884	u	884								
	53.1	53.2	7	b	015	c	010								
	.3	.4	8	b	014	a	971								
	.5	.6	9	a	971	a	971								
	53.7	53.8	890	a	971	c	015								
	54.1	54.2	1	b990	17	.9	000					xx	M(H ₂)		
	.3	.4	2	c	017	-							M(H ₂)		
	55.1	55.2	3	b	891	a	976								
	56.1	56.2	4	c	891	u	903								
	55.3	55.4	5	-		u	250								
	48.1	48.2	6	b	900	a	972								
	.3	.4	7	c	900	b	901								
	48.5	48.6	8	a	971	c	901								
	49.1	49.2	9	b990	17	b	037					xx	M(H ₂)		M(b ₂)
	.3	.4	900	s	036	c	500						M(b ₂ -1)		
	.5	.6	1	d-	500	c	047								M(Δ ₂)
	49.7	49.8	2	-		u	882								
	56.3	56.4	3	b	892	a	972								
	.5	.6	4	c	892	u	891								
P1.12	57.1	57.2	5	61	000	11	000								
P1.17	58.1	59.1	6	31	010	l	008								
	59.2	.3	7	b	010	q	909								
	.4	59.5	8	-		u	906								
	60.1	60.2	9	41	510	40	510								
	.3	.4	910	-		u	922								
			1	RwhatΔ	probΔΔ				P1.1						
			2	Rwrong	ΔprobΔ				P1.2						
			3	-	q8 919										
			4	001001	00 001										
	15.12	15.13	5	x	000	s	971								
	.14	.15	6	c	502	s	502								
	.16	.17	7	08	000	u	265								
P1.15	2.2	2.3	8	30	010	u	865								
P1.18	3A.1	3A.2	9	11	000	u	906								

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
P1.	0.1	1.1	920	31	250	50	977								
	1.2	2.1	1	10	010	u	918								
pl.13	3.1	3.2	2	b	971	s	012								
	.3	.4	3	09	000	h	501								
	.5	.6	4	a	251	c	251								
	.7	.8	5	b	255	a	501								
	3.9	3.10	6	c	255	u	860								
	16.10	16.11	7	k	000	p	971								
	.12	.13	8	x	000	h	502								
	.14	.15	9	a	294	c	294								
	.16	.17	930	b	295	a	502								
	16.18	16.19	1	c	295	u	978								
	16.24	16.25	2	c	387	b	502								
	.26	.27	3	6	000	a	390								
	.28	.29	4	c	390	g	502								
	.30	.31	5	b	296	a	502								
	.32	.33	6	c	296	b	297								
	16.34	16.35	7	a	502	c	297								
	17.1	18.1	8	31	430	b	011								
	18.2	18.3	9	a	012	k	000								
	.4	.5	940	p	013	x	000								
	.6	.7	1	k	000	b	974								
	18.8	18.9	2	-	-	t	960								
	19.1	19.2	3	a	975	t	961								
	20.1	20.2	4	a	975	t	956								
	.3	.4	5	r	959	u	958								
	21.1	22.1	6	31	190	b	277								
	22.2	22.3	7	c	503	v	278								
	22.4	23.1	8	w	504	30	860								
	24.1	24.2	9	y	860	z	250								
	.3	.4	950	y	870	z	260								
	.5	.6	1	y	880	z	270								
	25.1	25.2	2	b	503	c	277								
	.3	.4	3	v	504	w	278								
P1.9	26.1	26.2	4	-	-	-	-								
	26.3	26.4	5	-	-	u	300								
P1.7	27.1	27.2	6	r	959	t	958								
	.3	.4	7	30	190	u	954								
P1.8	28.1	28.2	8	31	070	31	130								
	.3	.4	9	-	-	-	-								
P1.5	29.1	29.2	960	30	070	u	954								
pl.6	30.1	30.2	1	31	070	30	130								
	.3	.4	2	-	-	u	954								
	7.3	7.4	3	b	965	a-	971								
	7.5	7.6	4	a-	972	c	965								
	8.1	8.2	5	h	047	b	046								
	8.3	8.4	6	h	500	q	250								
	9.1	9.2	7	d-	500	u	251								
	13.3	13.4	8	b	256	a	972								
	13.5	13.6	9	c	256	u	255								
			970	099999	999999										
			1	-	-	00	001								
			2	00	001	-	-								
			3	-	-	reA	006								
			4	-	-	00	054								
			5	-	-	00	060								
			6	001001	-	-	-								
			7	BRtype	-	ΔtimeR	-								
	16.20	16.21	8	b	502	6	000								
	16.22	16.23	979	a	387	u	932								

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
P1.0	4.1	4.2	250	b	970	-									
P1.1	5.1	5.2	1	c	99037	-						xx	$M(\Delta_{\ell-1})$		
	6.1	6.2	2	b	251	a	976								
	7.1	7.2	3	c	251	u	963								
P1.2	10.1	10.2	4	33	310	-									
P1.3	11.1	11.2	5	899047	m	047						xx	$M(\Delta_{\ell})$		$M(\Delta_{\ell})$
	11.3	12.1	6	c	047	b	255						$M(\Delta_{\ell})$		
	12.2	12.3	7	a	971	a	976								
	13.1	13.2	8	c	255	u	968								
P1.4	14.1	15.1	9	33	370	b	501								
	15.2	.3	260	a	286	c	286								
	.4	.5	1	s	014	09	000								
	.6		2	a	284	c	284								
	.8		3	l	014	p	012								
	15.10	15.11	4	x	000	u	915								
	15.18	15.19	5	a	296	c	296								
	.20	.21	6	b	015	s	971								
	.22	.23	7	h	014	k	000								
	.24	.25	8	p	012	x	000								
	.26	.27	9	x	000	h	502								
	.28	.29	270	a	285	c	285								
	.30	15.31	1	b	286	a	502								
	15.32	16.1	2	c	286	s	016								
	16.2	.3	3	s	012	09	000								
	.4	.5	4	a	501	a	294								
	.6	.7	5	c	294	b	012								
	16.8	16.9	6	a	012	u	927								
			7	Rxsec	Δ	calc	Δ		$P_{0.1}$						
			8	starti	ng	'	'		$P_{0.2}$						
			9	ending		'	'		$P_{0.3}$						
			280	Rxsec	Δ	err	Δ		$P_{4.1}$						
			1	z	91650	z	740		$D_{1.1}$						
			2	a-	630	h	630		$D_{1.2}$						
			3	c	631	b	366		$D_{1.3}$						
			4	a	97630	a	631		$D_{1.4}$			-G			
			5	k	000	s	630		$D_{1.5}$						$+2(3+G)L$
			6	b	99500	s	631		$D_{1.6}$						$+2(3+G)L$
			7	l	499	m	077		$D_{3.1}$			-L+1			
			8	-	-	-	-		$D_{3.2}$						
			9	-	-	-	-		$D_{3.3}$						
			290	-	-	-	-		$D_{4.1}$						
			1	-	-	-	-		$D_{4.2}$						
			2	-	-	-	-		$D_{4.3}$						
			3	y	4 510	z	500		$D_{9.1}$						
			4	899473	d	630			$D_{5.1}$			-4L+1			+2L
			5	-	c	630			$D_{5.2}$						+2L
			6	099900	d	630			$D_{5.3}$			-2GL+1			+6L
			7	-	c	630			$D_{5.4}$						+6L
			8	b	630	l	631		$D_{6.1}$						
			9	w	4 570	-	-		$D_{7.1}$						
X ₀	0.1	0.2	300	50	277	50	278								
	1.1	1.2	1	12	000	32	510								
	2.1	2.2	2	c	495	c	495								
X _{0.1}	3.1	3.2	3	b	495	l	010								
	3.3	3.4	4	-	-	q	324								
X ₁	10.1	10.2	5	a	467	c	495								
	11.1	11.2	6	b	384	a	467								
	11.3	12.1	7	c	384	b	281								
	12.2	13.1	8	c	313	c	630								
	13.2	14.1	309	c	631	v	630								

Block #4

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
	14.2	14.3	310	w	632	w	634								
	14.4	14.5	1	w	636	w	638								
	15.1	15.2	2	y	630	z	640								
x _{1.1}	16.1	16.2	3	-		-									
	17.1	17.2	4	b	313	a	478								
x _{1.3}	18.1	18.2	5	c	313	u	313								
x _{1.2}	19.1	19.2	6	v	282	w	288								
	1A.1	1A.2	7	v	284	w	290								
	.3	.4	8	b	286	c	292								
x _{0.2}	4.1	4.2	9	a	467	h	494								
	5.1	5.2	320	l	015	t	330								
	.3	.4	1	r	449	u	334								
			2	r	449	u	339								
	9.1	9.2	3	b	494	u	319								
x _{0.3}	6.1	6.2	4	55	570	55	570								
	.3	.4	5	62	000	65	000								
	7.1	7.2	6	50	277	50	279								
PO ₂	8.1	8.2	7	33	920	31	920								
	8.3	8.4	8	50	979	b	016								
	8.5	8.6	9	-6	000	u	479								
x _{0.4}			330	r	449	u	421								
			1	r	449	u	450								
			2	r	449	u	377								
			3	-		u	303								
x ₂	20.1	20.2	4	y5	520	z	500								
	21.1	21.2	5	b	334	a	476								
	22.1	22.2	6	c	334	u	449								
	23.1	23.2	7	b	293	32	510								
	.3	.4	8	-		u	336								
x ₃	30.1	30.2	9	b	287	c	351								
x _{3.1}	31.1	31.2	340	a	467	c	496								
	.3	.4	1	b	467	c	497								
	32.1	32.2	2	b	288	h	352								
	.3	.4	3	h	367	a	469								
	.5	.6	4	c	354	b	289								
	32.7	33.1	5	c	368	b	351								
	33.2	.3	6	a	468	h	351								
	.4	.5	7	h	366	a-	467								
	33.6	33.7	8	c	353	-									
x _{3.2}	34.1	34.2	9	l	011	b	497								
	.3	.4	350	-		t	366								
	35.1	35.2	1	-		-									
	.3	.4	2	-		-									
	.5	.6	3	-		-									
	35.7	35.8	4	-		-									
	36.1	36.2	5	b	353	a	467								
x _{3.4}	37.1	37.2	6	h	351	h	366								
	.3	.4	7	a	467	c	353								
	38.1	38.2	8	b	354	a	469								
	.3	.4	9	h	352	h	367								
	.5	.6	360	a	469	c	354								
	.7	.8	1	b	368	a	480								
	38.9	39.1	2	c	368	l	012								
	39.2	39.3	3	b	497	q	370								
	3A.1	3A.2	4	a	467	c	497								
	.3	.4	5	-		u	349								
x _{3.3}	3B.1	3B.2	6	-		-									
	.3	.4	7	-		-									
	3B.5	3C.1	8	-		-									
	3C.2	3C.3	369	a	467	u	356								

CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
x3.5	3D.1	3D.2	370	l	013	b	496								
	.3	.4	1	-		q	373								
	.5	.6	2	-		u	340								
x3.6	3E.1	3E.2	3	b	288	a	016								
	.3	.4	4	c	288	b	016								
	.5	.6	5	;	6 000	a	289								
	3E.7	3E.8	6	c	289	u	449								
x6	60.1	60.2	7	b	470	c	499								
x6.1	61.1	61.2	8	b	467	c	497								
x6.2	62.1	62.2	9	c	498	-									
	.3	.4	380	b	298	c	394								
	63.1	63.2	1	b	017	l	027						M(H ℓ)		M(s ℓ)
	.3	.4	2	c	500	x	000								
	.5	.6	3	r	420	u	443								
	64.1	64.2	4	b	037	l	056						M($\frac{\Delta \ell - 1}{\Delta \ell}$)		M(β_j)
	.3	.4	5	c	500	x	000								
	.5	.6	6	r	420	u	443								
	65.1	65.2	7	l	630	m	047						M(30 $\frac{F}{TR}$)		M($\Delta \frac{3}{2}$)
	.3	.4	8	c	500	l	473								
	.5	.6	9	d-	500	c	500								
	65.7	.8	390	l	631	m	047						M(30 $\frac{D}{TR}$)		M($\Delta \frac{2}{\ell}$)
	.9	.10	1	c	501	l	473								
	.11	.12	2	d-	501	-									
	.13	.14	3	r	420	u	443								
x6.4	66.1	66.2	4	-		-									
	.3	.4	5	c	500	x	000								
	.5	.6	6	r	420	u	443								
x6.3	67.1	67.2	7	l	499	b	498								
	.3	.4	8	a	467	q	402								
	68.1	68.2	9	-		c	498								
	.3	.4	400	b	394	a	016								
	.5	.6	1	c	394	u	394								
x6.5	69.1	69.2	2	l	012	b	497								
	.3	.4	3	a	467	t	413								
	6A.1	6A.2	4	c	497	b	298								
	.3	.4	5	a	471	c	298								
	.5	.6	6	b	381	a	469								
	.7	.8	7	c	381	b	384								
	.9	.10	8	a	472	s	469								
	.11	.12	9	c	384	b	387								
	.13	.14	410	a	472	c	387								
	.15	.16	1	b	390	a	472								
	6A.17	6A.18	2	c	390	u	379								
x6.6	6B.1	6B.2	3	k	000	-									
	.3	.4	4	-		s	471								
	.5	.6	5	c	471	s	469								
	.7	.8	6	c	469	s	472								
	6B.9	6C.1	7	c	472	l	499								
	6C.2	6C.3	8	b	014	q	449								
	6D.1	6D.2	9	c	499	u	378								
			420	-		-									
x4	40.1	40.2	1	v	290	w	423								
	.3	.4	2	b	292	c	428								
	41.1	41.2	3	-		-									
x4.1	42.1	42.2	4	-		-									
	42.3	43.1	5	c	500	b	424								
	43.2	43.3	6	a	016	a	474								
	44.1	44.2	7	c	424	u	434								
	45.1	45.2	8	-		-									
	.3	.4	429	h	500	;	1 000								

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
	45.5	45.6	430	.3	000	q	435								
	46.1	46.2	1	50	280	50	500								
	.3	.4	2	50	495	90	000								
	.5	.6	3	90	000	u	433								
	44.3	44.4	4	b	500	u	424								
x4.2	47.1	47.2	5	b	292	a	470								
	.3	.4	6	a	474	-									
	48.1	48.2	7	c	292	u	439								
	49.1	49.2	8	-		u	449								
	48.3	48.4	9	b	291	a	470								
	.5	.6	440	c	291	b	290								
	.7	.8	1	a	471	c	290								
	48.9	48.10	2	-		u	421								
x7	70.1	70.2	3	c	501	v	500								
	71.1	71.2	4	w4	570	-									
	72.1	72.2	5	b	444	a	477								
	73.1	73.2	6	c	444	u	420								
	74.1	74.2	7	b	299	55	570								
	74.3	74.4	8	-		u	446								
			9	-		-									
x5	50.1	50.2	450	v	294	w	452								
	.3	.4	1	v	296	w	482								
x5.1	51.1	51.2	2	-		-									
	.3	.4	3	-		-									
	52.1	52.2	4	b	452	a	474								
	53.1	53.2	5	a	467	u	461								
	52.3	52.4	6	-		u	481								
			7	-		-									
	55.1	55.2	8	b	482	a	475								
	56.1	56.2	9	a	467	u	464								
	55.3	55.4	460	-		u	449								
	53.3	53.4	1	c	452	b	453								
	.5	.6	2	a	467	c	453								
	53.7	53.8	3	-		u	452								
	56.3	56.4	4	c	482	b	483								
	.5	.6	5	a	467	c	483								
	56.7	56.8	6	-		u	481								
			7	-		00	001								
			8	00	001	-									
			9	00	001	00	001								
			470	-		00	002								
			1	00	002	00	002								
			2	00	002	00	001								
			3	01	000	-									
			4	001000	-										
			5	00	100	-									
			6	01	010	-									
			7	002002	-										
			8	001010	00	010									
	8.7	8.8	9	c	016	u	920								
			480	00	002	-									
x5.2		54.0	1	-		l	475								
	54.1	54.2	2	-		-									
	.3	.4	3	-		-									
	54.5	54.6	4	-		u	458								
			5	-		-									
			6	-		-									
			7	-		-									
			8	-		-									
			9	-		-									

Block #7

CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
P201	02.1	03.1	920	33	770	33	860								
	03.2	04.1	1	50	978	b	923								
	04.2	04.3	2	a-	011	c	923								
	05.1	05.2	3	-		b	829								
	05.3	06.1	4	c	993	l	923								
P ₂	06.2	06.3	5	r	859	q2	856								
	11.1	11.2	6	b	958	c	998								
	.3	.4	7	l	770	m	830								
	.5	.6	8	k	000	m	957								
	.7	.8	9	c	990	l	993								
	.9	.10	930	d-	990	k	000								
	.11	.12	1	m	830	c	990								
	.13	.14	2	l	993	d-	990								
	11.15	11.16	3	h	980	c	994								
	12.1	12.2	4	b	998	a-	958								
P211	.3	.4	5	h	998	-									
	13.1	13.2	6	l	012	t	960								
	14.1	14.2	7	l	011	t	955								
P212	15.1	15.2	8	b	831	f	830								
	.3	.4	9	c	991	g	990								
	16.1	16.2	940	b	991	s-	990								
	.3	.4	1	k	000	m	957								
	.5	.6	2	k	000	m	771								
	.7	.8	3	c	992	l	993								
	.9	.10	4	d-	992	k	000								
	.11	.12	5	b	991	a-	990								
	.13	.14	6	c	992	m	992								
	.15	.16	7	c	992	l	993								
	16.17	16.18	8	d-	992	h	981								
	17.1	17.2	9	a-	994	c	994								
	18.1	18.2	950	b	942	a-	958								
	.3	.4	1	c	942	b	938								
	.5	.6	2	a-	959	c	938								
	.7	.8	3	b	948	a-	958								
	.9	18.10	4	c	948	u	934								
	19.1	19.2	5	c	949	c	949								
	19.3	19.4	6	-		u	938								
			7	063661		977236									
P ₂			8	-		00 001									
			9	00 001		00 001									
	20.1	20.2	960	33	070	50	977								
	21.1	21.2	1	r	859	q2	856								
	22.1	22.2	2	64	000	b	017								
	.3	.4	3	c	880	b	018								
	.5	.6	4	c	881	b	019								
	.7	.8	5	c	882	b	020								
	.9	.10	6	c	883	b	021								
	.11	.12	7	c	884	b	022								
	.13	.14	8	c	885	b	023								
	.15	.16	9	c	886	b	024								
	.17	.18	970	c	887	b	025								
	.19	.20	1	c	888	b	026								
	.21	.22	2	c	889	v	782								
	.23	.24	3	w	896	-									
	.25	.26	4	s-	781	c	893								
	22.27	22.28	5	b	008	c	890								
	23.1	23.2	6	33	920	u	920								
			7	Rprel i		mΔ2-2'									
			8	Rprel i		mΔ2-1'									
			979	Rprel i		mΔ2-0'									

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
S20	20.1	20.2	920	50	935	c	990								
	.3	.4	1	v	936	w	928								
	.5	.6	2	r	934	u	928								
	21.1	21.2	3	v	938	w	928								
	.3	.4	4	r	934	u	928								
	22.1	22.2	5	45	920	b	008								
	.3	.4	6	a-	061	c	008								
S21	.5	.6	7	b	990	u	012								
	23.1	23.2	8	-	-								C23.1	C23.2	
	.3	.4	9	-	-								C23.3	C23.4	
	24.1	24.2	930	b	929	s-	061								
	24.3	25.1	1	c	929	b	928								
	25.2	.3	2	a	061	a	065								
	.4	.5	3	c	928	u	928								
	26.1	26.2	4	-	-										
			5	ΔVres	cale''				RESCALE					s21	EXIT
			6	099400	b	992			D ₂₀						
			7	-1 000	c	992			D ₂₁						
			8	099900	b	000			D ₂₂						M(V _{1,1})
			9	-1 000	c	000			D ₂₃						M(V _{1,1})
			880	-	-				H ₁						
			1	-	-				H ₂						
			2	-	-				:						
			3	-	-				.						
			4	-	-				H _L						
			5	-	-										
			6	-	-										
			7	-	-										
			8	-	-										
			9	-	-										
			890	-	-				PROB. #						
			1	b	000	;1 000			D ₁				M(IS _L)		
			2	b	000	;1 000			D ₂				M(S _{L, H})		
			3	-	-				c m-1						
			4	-	-				μ m-1						
			5	01 000	-				m, T-1						
			6	-	-				δ						
			7	-	-				ε						
			8	b99zzz	a-	000			D ₁₀₀			B9X	X = 10-C		M(Y ₁)
			9	-0 000	h	991			D ₁₀₁						
			900	h	895	m	000		D ₁₁₀						M(IS _{f₁})-1
			1	b	000	u	zty		D ₁₁₁			BXX	M(Y ₁)-1	XX = 99-L	
			2	b	000	-2 000			D ₁₃₀			BXX	M(Q _{1,0})-1	XX = 99-N-L	
			3	c	000	c	000		D ₁₃₁				M(S _{f₁})-1		M(Q _{1,0})-1
			4	b	000	-2 000			D ₁₃₂			BXX	M(Y ₁)-1	XX = 99-L	
			5	c	000	c	000		D ₁₃₃				M(IS _{f₁})-1		M(Y ₁)-1
			6	Rsourc	e''R''				P ₁						
			7	Rconve	rged'R				P ₂						
			8	Rcriti	cal'R'				P ₃						
S10	100.1	100.2	9	b	898	c	911								
	.3	.4	910	c	999	50	906								
	101.1	101.2	1	-	-										
	101.3	102.1	2	c	999	b	911								
S100	102.2	.3	3	a	069	c	911								
	.4	103.1	4	-	-	u	911								
	104.1	104.2	5	43	920	s	008								
	.3	.4	6	09	000	01	000								
	.5	.6	7	a	899	b	919								
	.7	105.1	8	c	924	b	063								
	106.1	106.2	9	-	-										

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
			070	-		10	000	←	10^{-6}						
			1	00-999		00-999		←	$\cdot -1$						
			2	a97zz+	c	980		←	D_{30}^8						
			3	v4 920	b	ψwz		←	D_{31}^8						
			4	a99zz+	c	980		←	D_{40}^8			A9X	X = 6-G		
			5	w4 860	b	ψwz		←	D_{110}^8						
			6	00 010	-			←	10^{-4}						
			7	-		50	000	←	$.5 \times 10^{-5}$						
			8	c 000	g	000		←	C_5			$M(u_{1,1})$		$M(v_{1,1})$	
			9	m 000	a	000		←	C_6			$M(S_{f1,0})$		$M(S_{IN1,0})$	-1
			080	a- 000	c	000		←	D_{50}			$1+M(z_{L,H})$		$1+M(z_{L,H})$	
			1	a- 000	c	000		←	D_{61}			$1+M(Q_{L,H})$		$1+M(Q_{L,H})$	
			2	a- 000	c	000		←	D_{60}			$1+M(P_L^2)$		$1+M(P_L^2)$	
			3	a- 000	c	000		←	D_{61}			$1+M(Y_L)$		$1+M(Y_L)$	
			4	-		-						$g_3(L)$			
			5	-		-						$f_6(L,H)$			
			6	m99984	c	zz+		←	D_{54}			M9X	X = 10-G		
			7	l 992	m	000		←	D_{10}						$1+M(u_{L,H})$
			8	d 990	a	000		←	D_{11}						$1+M(v_{L,H})$
			9	m 000	a-	000		←	D_{70}			$M(IS_{fL})$		$M(IS_{INL})$	
			090	-		-						D_{52}			
			1	-		-						D_{53}			
			2	-		-						D_{62}			
			3	-		-						D_{63}			
			4	-		-						$g_3(L)$			
			5	-		-						$f_6(L,H)$			
			6	-		-						H_L			
			7	-		-						$s_{L,H}$			
			8	-		-						Δ_{L-1}/Δ_L			
			9	-		-						β_j			
			100	-		-						$(\pi/2)^2 \cdot 10^{-5}$			
			1	-		-						N^*			
			2	-		-						L^*			
			3	-		-						P^*			
			4	-		-						c^m			
I54	57.1	57.2	5	b 991	-										
	.3	.4	6	-		-						$C_{57,3}$		$C_{57,4}$	
	58.1	58.2	7	b 990	;	6 000									
	.3	.4	8	a- 990	a-	106									
	.5	.6	9	c 106	u	117									
I5	50.1	50.2	110	b 090	a-	071									
	.3	.4	1	h 090	c	106									
	.5	.6	2	b 091	a-	071									
	.7	.8	3	h 091	c	125									
	.9	.10	4	l 992	b	101									
I51	51.1	51.2	5	a- 102	c	990									
	.3	.4	6	b 086	c	117									
I52	52.1	52.2	7	-		-						$C_{52,1}$		$C_{52,2}$	
	53.1	53.2	8	b 117	a	069									
	54.1	54.2	9	c 117	u	105									
I53	55.1	55.2	120	b 106	;	6 000									
	.3	.4	1	c 122	b	991									
	56.2	56.3	2	-		-						$C_{56,2}$		$C_{56,3}$	
I61	61.1	61.2	3	m 983	c	990									
	.3	.4	4	l 064	d-	990									
	62.1	62.2	5	-		-						$C_{62,1}$		$C_{62,2}$	
	63.1	63.2	6	-		-									
			7	Rba Δ c	k $\Delta\Delta$ 01			←	K_{20}						
I6	60.1	60.2	8	b 092	a-	071									
	60.3	60.4	9	h 092	c	106									

Block #10

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
P221	24.1	24.2	920	b	014	s-	978								
	.3	.4	1	h	997	k	000								
	.5	.6	2	b	010	c	103								
	.7	.8	3	b	012	c	102								
	.9	.10	4	b	784	c	101								
	.11	.12	5	p	102	j	995								
	.13	.14	6	p	101	j	996								
	.15	24.16	7	b	785	a-	101								
	24.17	25.1	8	h	990	a-	878								
	25.2	25.3	9	c	878	b	879								
	.4	.5	930	s-	990	c	879								
	.6	.7	1	b	990	a-	101								
	.8	25.9	2	s-	979	h	990								
	26.1	26.2	3	06	000	a-	903								
	.3	.4	4	c	903	b	990								
	.5	.6	5	a-	101	a-	102								
	.7	.8	6	h	990	061000									
	.9	.10	7	a-	892	c	892								
	.11	.12	8	b	990	a-	996								
	26.13	.14	9	a-	995	a-	995								
	.15	.16	940	h	990	a-	900								
	.17	.18	1	c	900	b	990								
	.19	.20	2	06	000	a-	905								
	.21	.22	3	c	905	b	990								
	.23	.24	4	a-	102	h	990								
	.25	.26	5	06	000	a-	891								
	.27	.28	6	c	891	b	990								
	.29	.30	7	06	000	a-	902								
	.31	.32	8	c	902	b	990								
	26.33	26.34	9	a-	903	c	903								
P222	27.1	27.2	950	b	990	a-	101								
	.3	.4	1	a-	102	h	990								
	.5	.6	2	06	000	a-	901								
	.7	.8	3	c	901	b	990								
	.9	.10	4	a-	905	c	905								
	.11	.12	5	b	990	06	000								
	.13	.14	6	a-	904	c	904								
	.15	.16	7	b	990	a-	979								
	27.17	27.18	8	a-	898	c-	898								
	28.1	28.2	9	b	979	s-	011								
	.3	.4	960	09	000	a-	898								
	.5	.6	1	c	898	s-	102								
	.7	.8	2	a-	977	u	974								
	28.13	28.14	3	c	901	b	904								
	.15	.16	4	a-	991	c	904								
	.17	.18	5	s-	101	09	000								
	.19	.20	6	a-	991	-									
	.21	.22	7	a-	902	c	902								
	.23	.24	8	s-	990	a-	101								
	.25	.26	9	s-	102	a-	785								
	.27	.28	970	08	000	a-	878								
	28.29	29.1	1	c	878	l	978								
	29.2	.3	2	r	859	q2	856								
	2A.1	2A.2	3	33	920	u	920								
	28.9	28.10	4	09	000	h	991								
	28.11	28.12	5	a-	901	u	963								
			6	-	-	-	-								
			7	-	-	00	099								
			8	-	-	00	003								
			9	-	-	00	001								

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
P ₂	30.1	30.2	920	b	922	k	000								
	.3	.4	1	r	859	q2	856								
	31.1	31.2	2	54	860	50	952								
	32.1	33.1	3	33	010	b	931								
	33.2	.3	4	a-	102	c	931								
	.4	.5	5	b	933	a-	102								
	.6	.7	6	c	933	b	934								
	.8	.9	7	a-	102	c	934								
P231	34.1	34.2	8	l	780	d-	950								
	.3	.4	9	h	990	k	000								
	.5	.6	930	m	990	-5	000								
	.7	35.1	1	c	100	b	879	←	D ₃₀₁	→					M(H _f)
	35.2	.3	2	09	000	k	000								
	.4	36.1	3	c	829	b	829	←	D ₃₀₂	→					M(b _L)
	36.2	.3	4	h	990	s-	828	←	D ₃₀₃	→					M(b _{L-1})
	.4	37.1	5	c	991	d-	991								
	37.2	.3	6	k	000	m	951								
	.4	.5	7	c	992	m	992								
	.6	.7	8	-3	000	c	991								
	38.1	38.2	9	l	990	m	992								
	.3	.4	940	-2	000	c	990								
	.5	39.1	1	l	993	d-	990								
	39.2	.3	2	-2	000	c	085								
	.4	.5	3	d-	085	c	085								
	.6	.7	4	d-	991	-3	000								
	.8	.9	5	c	084	d-	084								
	39.10	39.11	6	c	084	-									
	3A.1	3A.2	7	r	859	q2	856								
	3B.1	3B.2	8	-		b	781								
	3B.3	3B.4	9	c	104	u	953								
			950	00	314	159265		←	$\pi \cdot 10^{-3}$	→					
			1	063661		977236		←	$2/\pi$	→					
			2	Rpreli		mΔ2-3'		←	PRELIM 2-3	→					
P232	3C.1	3C.2	3	33	920	u	920								
			4	-		-									
			5	-		-									
			6	-		-									
			7	-		-									
			8	-		-									
			9	-		-									
			960	-		-									
			1	-		-									
			2	-		-									
			3	-		-									
			4	-		-									
			5	-		-									
			6	-		-									
			7	-		-									
			8	-		-									
			9	-		-									
			970	-		-									
			1	-		-									
			2	-		-									
			3	-		-									
			4	-		-									
			5	-		-									
			6	-		-									
			7	-		-									
			8	-		-									
			9	-		-									

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
P ₂	0.1	1.1	920	50	976	b	979								
	1.2	1.3	1	s-	997	h	991								
	1.4	2.1	2	09	000	a-	074								
	2.2	3.1	3	c	074	b	061								
	3.2	3.3	4	s-	997	09	000								
	4.1	4.2	5	a-	086	c	086								
	5.1	5.2	6	b	785	06	000								
	.3	.4	7	a-	078	c	078								
	.5	.6	8	b	785	a-	784								
	.7	6.1	9	h	990	a-	078								
	6.2	6.3	930	c	078	b	990								
	.4	.5	1	a-	087	c	087								
	7.1	7.2	2	b	990	a-	784								
	.3	.4	3	s-	061	h	990								
	8.1	8.2	4	06	000	a-	079								
	.3	.4	5	c	079	b	990								
	.5	.6	6	a-	061	a-	088								
	.7	9.1	7	c	088	b	990								
	9.2	.3	8	a-	102	a-	784								
	.4	10.1	9	h	990	a-	079								
	10.2	11.1	940	c	079	b	990								
	11.2	.3	1	a-	784	a-	102								
	.4	.5	2	a-	061	h	990								
	.6	.7	3	a-	080	c	080								
	12.1	12.2	4	b	990	a-	784								
	.3	.4	5	a-	102	h	990								
	13.1	13.2	6	06	000	a-	080								
	.3	14.0	7	c	080	l	991								
	14.1	.2	8	p	784	u	973								
	14.9	14.10	9	a-	995	a-	102								
	.11	.12	950	a-	102	h	990								
	15.1	15.2	1	a-	082	c	082								
	16.1	16.2	2	b	990	s-	061								
	.3	.4	3	a-	089	c	089								
	17.1	17.2	4	b	990	a-	102								
	18.1	18.2	5	06	000	u	971								
P240	19.1	19.2	6	b	990	a-	995								
	19.3	20.1	7	h	990	s-	061								
	.2	.3	8	06	000	a-	089								
	20.4	21.1	9	c	089	b	990								
	21.2	21.3	960	a-	784	a-	102								
	.4	22.1	1	h	990	a-	081								
	22.2	22.3	2	c	081	b	990								
	.4	.5	3	06	000	a-	081								
	22.6	23.1	4	c	081	b	990								
	23.2	.3	5	a-	102	h	990								
	.4	.5	6	a-	083	c	083								
	.6	.7	7	b	990	06	000								
	.8	.9	8	a-	083	c	083								
	23.10	23.11	9	l	976	q7	856								
	24.1	24.2	970	33	920	u	920								
	18.3	18.4	1	a-	082	c	082								
	.5	.6	2	-	-	u	956								
	14.3	14.4	3	x	000	s-	785								
	.5	.6	4	c	991	s-	991								
	14.7	14.8	5	-	-	u	949								
			6	Rpre	41	m/2-4R		PRELIM	2-4						
			7	-	-	-									
			8	-	-	-									
			9	-0	000	00	003			-3*					

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
P ₂ ⁵	50.1	50.2	920	y	770	z	910								
	.3	.4	1	b	785	c	900								
	51.1	51.2	2	y	970	z	310								
	.3	.4	3	z	320	z	330								
	.5	.6	4	z	340	z	350								
	.7	.8	5	z	360	z	370								
	.9	.10	6	z	380	z	390								
	.11	.12	7	z	400	z	410								
	.13	.14	8	z	420	z	430								
	.15	.16	9	z	440	z	450								
	.17	.18	930	z	460	z	470								
	.19	.20	1	z	480	z	490								
	.21	.22	2	z	500	z	510								
	.23	.24	3	z	520	z	530								
	.25	.26	4	z	540	z	550								
	.27	.28	5	z	560	z	570								
	.29	.30	6	z	580	z	590								
	.31	.32	7	z	600	z	610								
	.33	.34	8	z	620	z	630								
	.35	.36	9	z	640	z	650								
	51.37	51.38	940	z	660	z	670								
	.39	.40	1	z	680	z	690								
	.41	.42	2	z	700	z	710								
	.43	.44	3	z	720	z	730								
	.45	.46	4	z	740	z	750								
	.47	.48	5	z	760	z	770								
	.49	.50	6	z	780	z	790								
	.51	.52	7	z	800	z	810								
	51.53	51.54	8	z	820	z	830								
	52.1	52.2	9	b	900	a-	996								
	.3	.4	950	a-	995	a-	995								
	.5	.6	1	a-	101	a-	101								
	.7	.8	2	a-	101	a-	101								
	.9	.10	3	a-	102	a-	102								
	.11	.12	4	a-	102	a-	102								
	52.13	52.14	5	h	990	u	960								
P ₂₅₀	53.1	53.2	6	k	000	c	840								M _{53(x)}
	54.1	54.2	7	b	956	a-	965								
	.3	55.1	8	c	956	b	990								
	55.2	.3	9	a-	965	h	990								
	56.1	56.2	960	l	967	t	956								
	57.1	57.2	1	33	130	64	000								
	58.1	58.2	2	b	964	k	000								
	.3	.4	3	r	859	q2	856								
	59.1	59.2	4	33	920	u	920								
			5	-	00	001									
			6	00	001	-									
			7	-	00	840									
			8	-	-	-									
			9	-	-	-									
			970	-	-	-									
			1	-	-	-									
			2	-	-	-									
			3	-	-	-									
			4	-	-	-									
			5	-	-	-									
			6	-	-	-									
			7	-	-	-									
			8	-	-	-									
			9	-	-	-									

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
	60.5	60.6	130	b	093	a-	071								
	.7	.8	1	h	093	c	125								
	.9	.10	2	l	994	u	115								
I ₁	10.1	10.2	3	b	136	s-	061								
	.3	.4	4	c	136	b	138								
	.5	.6	5	s-	061	c	138								
I ₁₁	11.1	11.2	6	-	-	-	-					←	C _{11.1}	C _{11.2}	→
	.3	12.1	7	c	990	l	064					←	C _{12.2}	C _{12.3}	→
	12.2	.3	8	-	-	-	-								
	13.1	13.2	9	h	993	u	044								
I ₁₂	14.1	14.2	140	r	013	u	010								
	.3	.4	1	-	-	u	136								
I ₇	70.1	70.2	2	l	981	m	994								
	.3	71.1	3	c	990	l	099								
	71.2	.3	4	-	-	-	-					←	C _{71.2}	C _{71.3}	→
	.4	72.1	5	c	991	l	065								
	72.2	.3	6	d-	990	s-	991								
	.4	73.1	7	c	997	b	144								
	73.2	.3	8	a-	071	c	144								
	74.1	74.2	9	b	995	u	044								
			150	00	025	-	-	←	.00025	→					
I ₉	91.1	91.2	1	s-	096	06	000								
	.3	.4	2	s-	096	s-	060								
	.5	.6	3	s-	060	a-	289								
	.7	92.1	4	c	289	l	981								
	92.2	.3	5	n	997	c	990								
	.4	.5	6	l	064	d-	990								
	.6	93.1	7	c	990	l	095								
	93.2	.3	8	m	996	a-	990								
	.4	.5	9	c	990	l	063								
	.6	.7	160	d-	990	c	996								
	.8	.9	1	b	095	s-	094								
	93.10	93.11	2	a-	095	u	164								
I ₈	80.1	80.2	3	c	996	s-	094								
I ₈₁	81.1	82.1	4	k	000	h	993								
	82.2	.3	5	s-	992	c	990								
	.4	.5	6	m	990	-1	000								
	.6	.7	7	c	990	l	980								
	.8	.9	8	d-	990	a-	996								
	.10	83.1	9	c	982	l	102								
	83.2	83.3	170	b	998	q	020								
I ₂	20.1	20.2	1	b	982	s-	995								
	.3	.4	2	s-	994	1	000								
	.5	.6	3	1	000	k	000								
	21.1	21.2	4	b	070	t	020								
	22.1	22.2	5	b	127	a-	998								
	.3	23.1	6	c	990	50	990								
	24.1	24.2	7	b	062	t	020								
	25.1	25.2	8	50	127	u	000								
J ₂	3.1	3.2	9	65	000	56	860								
	4.1	5.1	180	34	920	56	860								
	6.1	6.2	1	33	860	u	909								
I ₀	0.1	0.2	2	y	080	z	090								
	.3	.4	3	b	087	c	136								
	.5	.6	4	b	088	c	138								
	.7	.8	5	b	089	c	144								
	.9	.10	6	-	-	u	201								
α ₃	1.1	1.2	7	r	022	u	055								
	2.1	2.2	8	l	067	m	997								
	2.3	2.4	9	c	997	-	-								

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
P252	5A.1	5A.2	920	b	900	a-	101								
	.3	.4	1	a-	101	h	990								
	.5	.6	2	a-	935	c	935								
	.7	.8	3	b	990	a-	101								
	.9	.10	4	a-	102	a-	996								
	.11	.12	5	a-	995	a-	995								
	5A.13	5A.14	6	a-	941	c	941								
	5B.1	5B.2	7	33	190	35	250								
P253	5C.1	5C.2	8	b	956	c	998								
P254	5D.1	5D.2	9	c	999	l	994								
	5E.1	5E.2	930	b	910	-2	000						$M(S_{lg})$		
	.3	.4	1	c	990	d-	990								
	.5	.6	2	c	990	b	980								$M(Y_g^0)$
	.7	.8	3	-2	000	c	991								
	5E.9	5E.10	4	d-	991	c	991								
P255	5F.1	5F.2	5	b	990	c	000		D_{250}^p						$M(S_{lg,h})$
	.3	.4	6	b	999	a-	956								
	.5	.6	7	h	999	-									
	5G.1	5G.2	8	l	880	t	941						$M(H_g)$		
	5H.1	5H.2	9	b	935	a-	956								
	.3	.4	940	c	935	u	935								
P256	5J.1	5J.2	1	b	991	c	000		D_{251}^p						$M(S_{lg})$
	5K.1	5K.2	2	b	998	a-	956								
	.3	.4	3	h	998	-									
	5L.1	5L.2	4	l	102	t	952								
	5M.1	5M.2	5	b	930	a-	957								
	.3	.4	6	c	930	b	932								
	.5	.6	7	a-	956	c	932								
	.7	.8	8	b	938	a-	957								
	.9	.10	9	c	938	b	941								
	.11	.12	950	a-	956	c	941								
	.13	.14	1	-		u	958								
P257	5N.1	5N.2	2	b	954	k	000								
	.3	.4	3	r	859	q2	856								
	5P.1	5P.2	4	b	956	u	960								
	5Q.1	5Q.2	5	35	920	u	229								
			6	-		00	001		I^*						
			7	00	001	-			$*I$						
P258	5M.15	5M.16	8	b	935	a-	956								
	5M.17	5M.18	9	c	935	u	929								
	5P.3	5P.4	960	a-	956	c	008								
	.5	.6	1	b	956	u	955								
			2	-		-									
			3	-		-									
			4	-		-									
			5	-		-									
			6	-		-									
			7	-		-									
			8	-		-									
			9	-		-									
			970	-		-									
			1	-		-									
			2	-		-									
			3	-		-									
			4	-		-									
			5	-		-									
			6	-		-									
			7	-		-									
			8	-		-									
			9	-		-									

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGN- MENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
	3.1	3.2	190	r	022	u	059								
	3+1	3+2	1	r	022	u	044								
	4.1	4.2	2	r	022	u	142								
	5.1	5.2	3	r	022	u	110								
	6.1	6.2	4	r	022	u	128								
	7.1	8.1	5	l	098	m	094								
	8.2	8.3	6	c	094	m	094								
	.4	.5	7	c	094	u	300								
	8.10	9.1	8	c	095	b	998								
	9.2	9.3	9	s-	061	h	998								
	10.1	10.2	200	k	000	q	224								
a 1	11.1	11.2	1	r	043	u	031								
	12.1	12.2	2	b	096	c	097								
	13.1	13.2	3	r	022	u	133								
	14.1	14.2	4	r	022	u	055								
	15.1	15.2	5	r	022	u	151								
	15+1	15+2	6	r	043	u	287								
	16.1	16.2	7	b	982	c	995								
	.3	.4	8	b	997	c	994								
a 2	17.1	17.2	9	r	022	u	110								
	18.1	18.2	210	b	095	s-	094								
	.3	.4	1	c	095	b	992								
	.5	.6	2	f	993	c	993								
	.7	19.1	3	g	992	b	097								
	19.2	19.3	4	s-	061	h	097								
	20.1	20.2	5	k	000	q	187								
	21.1	21.2	6	r	022	u	133								
	22.1	22.2	7	r	022	u	055								
	23.1	23.2	8	r	022	u	059								
	.3	.4	9	-		u	209								
	9.1	9.2	220	l	150	c	994								
	9.3	9.4	1	c	992	u	263								
	23.1	23.2	2	b	998	a-	061								
	.3	.4	3	l	102	u	233								
a 4	24.1	24.2	4	r	022	u	163								
	25.1	25.2	5	b	982	-									
	26.1	26.2	6	r	022	u	044								
j0	0.1	0.2	7	b	999	a-	061								
	1.1	1.2	8	l	103	t	179								
j1	2.1	2.2	9	c	999	-									
00	0.1	0.2	230	l	078	j	273								
	.3	.4	1	b	079	c	289								
	.5	.6	2	c	996	c	985								
a 3	1.1	1.2	3	h	998	q	182								
	2.1	2.2	4	b	982	c	983								
	.3	.4	5	r	022	u	014								
	3.1	3.2	6	l	098	m	985								
	.3	.4	7	c	985	m	996								
	.5	4.1	8	c	997	c	097								
	4.2	4.3	9	l	981	m	063								
	4.4	4.5	240	h	990	a-	990								
	4.6	5.1	1	c	984	b	987								
	5.2	.3	2	c	986	m	985								
	.4	.5	3	c	987	m	068								
	.6	.7	4	a-	077	c	988								
a 1	.8	.9	5	r	043	u	287								
	6.1	6.2	6	a	997	c	996								
	7.1	7.2	7	l	064	u	298								
	.3	.4	8	-		u	291								
	7.9	7.10	9	-1	000	c	990								

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
	8.1	8.2	250	l	998	q	220								
	10.1	10.2	1	l	983	d	990								
	.3	11.1	2	c	983	l	067								
	11.2	11.3	3	m	986	s	062								
	.4	.5	4	s	989	c	990								
	.6	.7	5	m	987	a	062								
	.8	.9	6	c	991	m	996								
	11.10	12.1	7	c	996	l	983								
	12.2	.3	8	m	994	01	000								
	.4	.5	9	c	994	m	990								
	.6	.7	260	c	990	l	063								
	.8	.9	1	d	990	a	991								
	13.1	13.2	2	c	988	l	985								
	14.1	14.2	3	m	980	k	000								
	.3	.4	4	m	996	a	994								
a ₂	.5	15.1	5	c	995	b	985								
	15.2	.3	6	a	065	h	022								
	.4	.5	7	h	000	c	986								
	.6	.7	8	r	013	l	988								
	16.1	16.2	9	d	995	c	994								
	17.1	17.2	270	d	986	u	272								
	.3		1	00R	Δo	ut	Δ010								
	.5		2	h	989	f	994								
	.7		3	c	000	g	000						M(u _{l, h+1})	M(v _{l, h+1})	
	.9		4	r	859	q6	856								
	.11		5	r	043	u	287								
	18.1	18.2	6	b	022	l	022								
	.3	.4	7	a	065	c	985								
	19.1	19.2	8	m	994	-2	000								
	.3	.4	9	c	994	m	989								
	19.5	20.1	280	c	989	b	273								
	20.2	20.3	1	a	060	c	273								
	21.1	21.2	2	b	987	a	984								
	.3	.4	3	h	987	s	989								
	21.5	22.1	4	c	988	b	097								
	22.2	.3	5	a	061	h	097								
	.4	.5	6	l	096	u	296								
0 ₁	24.1	24.2	7	b	289	a	060								
	.3	25.1	8	c	289	l	099								
	25.2	25.3	9	m	000	a	000						M(s _{f_{l, h}})	M(s _{IN_{l, h}})	
	26.1	26.2	290	c	990	u	293								
	.3	.4	1	r	013	u	010								
	.5	.6	2	l	099	u	289								
	.7	.8	3	l	063	d	990								
	27.1	27.2	4	h	996	u	043								
	.3	.4	5	-	-	u	291								
	22.6	22.7	6	-	-	q	222								
	.8	.9	7	b	988	u	262								
	7.5	7.6	8	d	987	c	987								
	7.7	7.8	9	b	982	u	249								
	8.6	8.7	300	m	095	f	997								
	8.8	8.9	1	g	994	u	198								
			2	-	-	-	-								
			3	-	-	-	-								
			4	-	-	-	-								
			5	-	-	-	-								
			6	-	-	-	-								
			7	-	-	-	-								
			8	-	-	-	-								
			9	-	-	-	-								

Block #19

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
	107.1	107.2	920	b	999	-2	000								
	.3	.4	1	c	992	l	991								
	.5	.6	2	d-	992	c	998								
S11	110.1	110.2	3	b	896	h	990								
	111.1	111.2	4	-		-									
	112.1	112.2	5	k	000	50	998								
	.3	.4	6	r	859	q3	856								
	113.1	113.2	7	b	900	c	939								
	.3	.4	8	b	901	c	936								
	114.1	114.2	9	b	998	s	895								
S110	115.1	115.2	930	;	1 000	.1	000								
	116.1	116.2	1	l	990	t	941								
	117.1	117.2	2	b	991	c	990								
	118.1	118.2	3	b	939	a	061								
	.3	119.1	4	c	939	b	936								
	119.2	119.3	5	a	069	c	936								
	11A.1	11A.2	6	-		-									
	119.4	119.5	7	50	907	u	966								
S111	11B.1	11B.2	8	-1	000	c	993								
	11C.1	11C.2	9	-		-									
	.3	.4	940	s	993	u	930								
S13	130.1	130.2	1	b	998	h	895								
	131.1	131.2	2	k	000	66	000								
	.3	.4	3	r	859	q4	856								
	132.1	133.1	4	54	860	b	902								
	133.2	.3	5	c	962	b	903								
	.4	.5	6	r	960	u	957								
	134.1	134.2	7	b	061	44	920								
	.3	.4	8	a-	061	c	008								
	135.1	135.2	9	b	904	c	962								
	.3	.4	950	b	905	-									
	.5	.6	1	r	960	u	957								
	136.1	137.1	2	35	860	b	073								
	137.2	.3	3	c	023	b	075								
	.4	138.1	4	c	046	b	061								
	138.2	.3	5	-		-									
	.4	.5	6	35	920	u	229								
S15	150.1	150.2	7	a	060	c	964								
	151.1	151.2	8	b	962	a	069								
	152.1	152.2	9	c	962	u	961								
	151.3	151.4	960	-		-									
S50	153.1	153.2	1	l	999	-									
	154.1	154.2	2	-		-									
	155.1	155.2	3	c	990	d-	990								
	.3	.4	4	-		-									
	156.1	156.2	5	b	964	u	957								
S12	120.1	121.1	6	50	104	l	897								
	122.1	122.2	7	b	063	s-	998								
	.3	.4	8	h	992	;	1 000								
	.5	.6	9	.1	000	t	972								
	123.1	123.2	970	33	920	33	920								
	124.1	124.2	1	33	920	u	920								
S14	140.1	140.2	2	b	104	s-	893								
	.3	.4	3	k	000	m	992								
	.5	.6	4	c	992	b	998								
	.7	.8	5	s	894	k	000								
	.9	.10	6	d-	992	a-	104								
	141.1	141.2	7	f	104	g	893								
	142.1	143.1	8	c	104	b	998								
	143.2	143.3	9	c	894	u	941								

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
			920	33	010	u	010								
			1	R	Δ xx	Δ xx	'T		C ₁						
			2	00	001	-			C ₂						
			3	RR	rAS	l	Δ xx Δ		C ₃						
			4	L	Δ 1	'	'U		C ₄						
			5	Δ L	Δ 1	U	'		C ₅						
			6	RR	Δ Δ	'	l Δ Δ hT Δ		C ₆						
			7	Δ Δ	ASs	fT	'		C ₇						
			8	' Δ Δ Δ Δ		SiSs	fR		C ₈						
			9	TL	1 Δ 1 Δ	U	'RR Δ		C ₉						
			930	Δ l	Δ hT	Δ Δ Δ Δ	S		C ₁₀						
			1	4T	Δ Δ Δ Δ	Δ L	4TU		C ₁₁						
			2	Δ Δ Δ Δ		eoT	Δ Δ		C ₁₂						
			3	Δ Δ	SeiR	'	'		C ₁₃						
			4	wrong	Δ	'	'date		C ₁₄						
			5	'	'	'	'		C ₁₅						
			6	001001	-				C ₁₆						
			7	h4	190	-			C ₁₇						
			8	-		00	301		C ₁₈						
			9	Rtape	Δ	7	Δ fu Δ ll		C ₁₉						
			940	111111		11	011		C ₂₀						
			1	-		00	001		C ₂₁						
			2	10	000	-			C ₂₂						
			3	111100		111111			C ₂₃						
			4	111111		10	111		C ₂₄						
			5	077000	-				LC ₁						
			6	P	'P	'	'		C ₂₆						
			7	R	'R	'R	'		C ₂₇						
			8	Rend	Δ Δ	Δ Δ bc	Δ Δ		C ₂₈						
	3.3	3.4	9	r	975	u	136								
	4.1	4.2	950	b	932	-									
	.3	.4	1	r	975	u	136								
	5.1	5.2	2	b	933	-									
	.3	.4	3	r	975	u	136								
	.5	.6	4	-		u	976								
	36.1	36.2	5	50	934	-									
	36.3	.4	6	90	000	u	856								
	.5	.6	7	e	933	u	104								
			8	R	'R	'BR	'R	'R	'	C ₃₈					
			9	PPPPPP		PPPPPP			C ₃₉						
	21.1	21.2	960	e	933	u	092								
			1	-		00	274		C ₄₁						
			2	-		01	000		C ₄₂						
			3	Tpage	Δ	00T	'		PW ₁						
			4	-		u	064		C ₄₄						
			5	'	'	'	'R		C ₄₅						
			6	006000	-				C ₄₆						
			7	v4	250	w	990		C ₄₇						
			8	002002	-				C ₄₈						
			9	111111		101111			C ₄₉						
			970	-	-	-	-		C ₅₀ = $(\pi/36) \times 10^{-5}$						
			1	-	-	-	-		C ₅₁ = N°						
			2	-	-	-	-		C ₅₂ = L°						
			3	-	-	-	-		C ₅₃ = J°						
			4	-	-	-	-		C ₅₄ = c ^m						
			5	-	-	-	-						E ₁		
			6	-	-	-	-						E ₂		
			7	-	-	-	-						E ₃		
			8	-	-	-	-						LC		
			9	-	-	-	-								

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
	1.3	1.4	010	50	908	66	000								
	1.5	1.6	1	y	100	z	970								
	1.7	1.8	2	33	070	36	130								
	2.1	3.1	3	-		l	961								
	3.2	3.3	4	b	009	t	016								
	4.1	4.2	5	50	099	u	020								
	5.1	5.2	6	b	959	c	190								
	6.1	7.1	7	77	190	50	939								
	7.2	8.1	8	c	009	87	000								
	8.2	8.3	9	90	000	u	015								
E5	0.1	0.2	020	b	892	c	038								
	0.3	0.4	1	b	891	c	046								
	0.5	.6	2	b	026	a-	972								
	.7	.8	3	c	026	b	055								
	.9	.10	4	a-	972	c	055								
	1.1	1.2	5	b	972	c	997								
	.3	.4	6	-		b	879								M(H ₁)
	.5	2.1	7	c	992	l	007								
	2.2	2.3	8	r	977	q	955								
	3.1	3.2	9	r	976	u	152								
e52	3.3	3.4	030	r	976	u	162								
	.5	.6	1	r	975	u	133								
	4.1	4.2	2	b	997	06	000								
	.3	.4	3	f	943	e	921								
	.5	.6	4	c	921	b	992								
	.7	.8	5	03	000	f	944								
	.9	.10	6	e	921	-									
	.11	.12	7	r	975	u	136								
	5.1	5.2	8	b	000	1	000								M(S _{f_l,h})
	.3	.4	9	f	941	e	921								
e51	.5	.6	040	r	975	u	136								
	6.1	6.2	1	l	992	q	046								
	7.1	7.2	2	b	992	s-	941								
	8.1	8.2	3	c	992	b	038								
	.3	.4	4	s-	922	c	038								
	.5	.6	5	-		u	031								
	9.1	9.2	6	b	000	1	000								M(S _{f_l})
	.3	.4	7	e	933	-									
	.5	.6	8	r	975	u	136								
	10.1	10.2	9	b	997	s-	941								
e53	.3	.4	050	h	997	k	000								
	.5	.6	1	-		q	057								
	11.1	11.2	2	b	055	s-	941								
	.3	.4	3	c	055	b	046								
	.5	.6	4	s-	922	c	046								
	12.1	12.2	5	-		b	879								M(H ₂)
	.3	.4	6	-		u	043								
	13.1	13.2	7	b	941	c	999								
	.3	.4	8	r	975	u	131								
	14.1	14.2	9	b	026	h	061								
e58	.3	.4	060	c	099	f	972								
	.5	.6	1	-		-								B	M(H ₂)
	.7	.8	2	g	997	c	992								
	.9	.10	3	r	976	u	144								
	.11	.12	4	r	976	u	152								
	.13	.14	5	r	976	u	182								
	15.1	15.2	6	b	964	c	977								
	.3	.4	7	r	975	u	133								
	.5	.6	8	b	992	s-	941								
	15.7	15.8	9	c	992	-									

Block #22

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
	15.9	15.10	070	r	975	u	121								
	16.1	16.2	1	b	997	06	000								
	.3	.4	2	f	943	e	921								
	.5	.6	3	c	921	b	992								
	.7	.8	4	03	000	f	944								
	.9	.10	5	e	921	-									
	.11	.12	6	r	975	u	136								
	17.1	17.2	7	l	992	q	082								
	.3	.4	8	b	990	1	000								
	.5	.6	9	f	941	e	933								
	.7	.8	080	r	975	u	136								
	.9	.10	1	-	u	066									
e55	18.1	18.2	2	b	990	1	000								
	.3	.4	3	f	941	e	921								
	.5	.6	4	r	975	u	136								
	.7	.8	5	r	975	u	121								
	19.1	19.2	6	b	990	1	000								
	.3	.4	7	f	941	e	921								
	.5	.6	8	r	975	u	136								
	.7	.8	9	r	975	u	121								
	20.1	20.2	090	k	000	b	990								
	.3	.4	1	f	942	t	960								
	21.3	21.4	2	-	-										
	.5	.6	3	f	941	e	921								
	.7	.8	4	r	975	u	136								
e56	22.1	22.2	5	k	000	b	997								
	.3	.4	6	s-	941	q	101								
	24.1	25.1	7	c	997	b	099								
	25.2	.3	8	s-	941	c	099								
	26.1	26.2	9	edit	r	outline									
	.3	.4	100	c	992	u	066								
e57	.5	.6	1	r	975	u	121								
	27.1	27.2	2	k	000	b	990								
	.3	.4	3	f	942	t	957								
			4	-	-										
			5	r	975	u	136								
	29.1	29.2	6	l	973	b	999								
	.3	.4	7	-	q	110									
	30.1	30.2	8	a-	941	c	999								
	.3	.4	9	-	u	059									
			110	r	976	u	144								
	31.1	31.2	1	b	946	50	948								
	31.3	31.4	2	r	975	u	136								
	32.1	32.2	3	b	136	a	936								
	33.1	33.2	4	b	935	u	112								
	34.1	34.2	5	l	935	j	249								
	.3	.4	6	77	190	50	009								
	.5	.6	7	33	200	30	200								
	35.1	35.2	8	66	000	u	200								
	.3	.4	9	33	860	33	860								
	.5	.6	120	33	920	u	920								
E4	1.1	1.2	1	-	-							V40 + i	250 + i	W	990
e40	5.1	5.2	2	l	990	b	008								
	.3	.4	3	f	969	q	128								
	6.1	6.2	4	s-	990	04	000								
	.3	.4	5	e	126	c	126								
	7.1	7.2	6	b	991	-x	000								
	9.1	9.2	7	c	990	u	129								
	8.1	8.2	8	b	991	u	127								
e42	2.1	2.2	9	b	121	a	968								

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
	2.3	2.4	130	c	121	u	975								
E ₄₁	3.1	3.2	1	h	967	c	121								
	4.1	4.2	2	36	250	u	975								
E ₆	1.1	1.2	3	b	978	a	936								
	2.1	2.2	4	c	978	u	975								
	1.3	1.4	5	-		u	977								
E ₇	1.1	1.2	6	h4	190	-						40 + 1	X ₁		
	2.1	2.2	7	b	136	a	936								
	3.1	3.2	8	c	136	u	975								
	4.1	5.1	9	77	190	l	938								
	5.2	.3	140	b	009	a-	941								
	.4	.5	1	h	009	q	143								
	6.1	6.2	2	b	937	u	138								
	7.1	7.2	3	90	000	u	856								
E ₈	1.1	1.2	4	r	975	-									
	.3	.4	5	b	978	a	966								
	3.1	3.2	6	c	978	u	150								
	2.1	2.2	7	b	978	a	936								
	4.1	4.2	8	c	978	u	151								
	2.3	2.4	9	-		u	976								
	5.1	5.2	150	b	947	u	136								
	6.1	6.2	1	b	965	u	136								
E ₁₀	1.1	1.2	2	b	958	-									
	1.3	1.4	3	r	975	u	136								
	2.1	2.2	4	b	890	-									
	2.3	2.4	5	r	975	u	136								
	3.1	3.2	6	b	963	a-	962								
	.3	.4	7	h	963	-									
	.5	.6	8	r	975	u	136								
	4.1	4.2	9	b	007	-									
	4.3	4.4	160	r	975	u	136								
	.5	.6	1	-		u	976								
E ₉	1.1	1.2	2	b	008	02	000								
	.3	.4	3	f	940	e	923								
	.5	.6	4	r	975	u	136								
	2.1	2.2	5	b	924	-									
	.3	.4	6	r	975	u	136								
	3.1	4.1	7	b	974	f	942								
	4.2	4.3	8	e	933	-									
	4.4	.5	9	r	975	u	136								
	5.1	5.2	170	b	925	-									
	.3	.4	1	r	975	u	136								
e ₉₁	6.1	7.1	2	b	998	e	933								
	7.2	7.3	3	r	975	u	136								
	8.1	8.2	4	b	926	-									
	.3	.4	5	r	975	u	136								
	9.1	9.2	6	b	927	-									
	.3	.4	7	r	975	u	136								
	10.1	10.2	8	b	945	c	978								
	.3	.4	9	b	928	-									
	.5	.6	180	r	975	u	136								
	.7	.8	1	-		u	976								
E ₁₁	1.1	1.2	2	b	999	03	000								
	.3	.4	3	f	944	e	929								
	.5	.6	4	r	975	u	136								
	2.1	2.2	5	b	189	c	978								
	.3	.4	6	b	930	-									
	.5	.6	7	r	975	u	136								
	3.1	3.2	8	b	931	u	949								
			9	075000	-										

Block #24

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
C1	10.1	10.2	200	63	000	13	000								
	11.1	11.2	1	33	860	33	860								
	12.1	12.2	2	33	920	b	220								
	.3	.4	3	k	000	q9	220								
	12.5	12.6	4	-		u	920								
			5	-											
			6	-											
			7	-											
			8	-											
			9	-											
			210	-											
			1	-											
			2	-											
			3	-											
			4	-											
			5	-											
			6	-											
			7	-											
			8	-											
			9	-											
C2	20.1	21.1	220	50	973	10	842								
	22.1	22.2	1	b	842	b	973								
	.3	.4	2	-		t	225								
	23.1	23.2	3	b	973	q	920								
	24.1	24.2	4	33	920	u	223								
	25.1	26.1	5	43	920	43	920								
	27.1	27.2	6	b	973	q	228								
	28.1	28.2	7	43	920	u	226								
	29.1	29.2	8	33	920	33	920								
	.3	.4	9	33	920	u	920								
			230	-											
			1	-											
			2	-											
			3	-											
			4	-											
			5	-											
			6	-											
			7	-											
			8	-											
			9	-											
			240	-											
			1	-											
			2	-											
			3	-											
			4	-											
			5	-											
			6	-											
			7	-											
			8	-											
			9	-											
			250	-											
			1	-											
			2	-											
			3	-											
			4	-											
			5	-											
			6	-											
			7	-											
			8	-											
			9	-											

250

CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
P1.10	31.1	31.2	860	b	899	a	501								
	.3	.4	1	c	899	b	884								
	.5	.6	2	a	501	c	884								
	.7	.8	3	b	891	a	501								
	31.9	31.10	4	c	891	u	872								
P1.11	32.1	33.1	5	50	911	10	008								
	34.1	35.1	6	50	010	l	008								
	35.2	35.3	7	b	010	q	922								
	36.1	36.2	8	50	912	u	870								
	37.1	37.2	9	-		u	905								
	38.1	38.2	870	90	000	b	913								
	.3	.4	1	c	868	u	865								
P1.16	39.1	39.2	2	b	010	50	010								
	.3	.4	3	.3	000	.3	000								
	39.5	40.1	4	c	010	12	000								
	41.1	42.1	5	32	510	b	010								
	42.2	.3	6	l	510	q	878								
	.4	.5	7	-		u	875								
	43.1	43.2	8	42	510	42	510								
	.3	44.1	9	30	510	13	000								
	45.1	45.2	880	l	017	d-	037		M(H ₁)		M(b ₁)				
	.3		1	c	047	-			M(Δ ₁)						
	46.1	46.2	2	b	899	a	914								
	47.1	47.2	3	c	899	u	896								
P1.14	50.1	50.2	4	b99037	c	830						xx	M(B ₂)		829 + l
	51.1	51.2	5	b	884	a	914								
	52.1	52.2	6	c	884	u	884								
	53.1	53.2	7	b	015	c	010								
	.3	.4	8	b	014	a	971								
	.5	.6	9	a	971	a	971								
	53.7	53.8	890	a	971	c	015								
	54.1	54.2	1	b99017	.9	000						xx	M(H ₂)		
	.3	.4	2	c	017	-							M(H ₂)		
	55.1	55.2	3	b	891	a	976								
	56.1	56.2	4	c	891	u	903								
	55.3	55.4	5	-		u	250								
	48.1	48.2	6	b	900	a	972								
	.3	.4	7	c	900	b	901								
	48.5	48.6	8	a	971	c	901								
	49.1	49.2	9	l99017	b	037						xx	M(H ₂)		M(b ₂)
	.3	.4	900	s	036	c	500						M(B ₂₋₁)		
	.5	.6	1	d-	500	c	047								M(Δ ₂)
	49.7	49.8	2	-		u	882								
	56.3	56.4	3	b	892	a	972								
	.5	.6	4	c	892	u	891								
P1.12	57.1	57.2	5	61	000	11	000								
P1.17	58.1	59.1	6	31	010	l	008								
	59.2	.3	7	b	010	q	909								
	.4	59.5	8	-		u	906								
	60.1	60.2	9	41	510	40	510								
	.3	.4	910	-		u	922								
			1	RwhatΔ	probΔΔ										
			2	Rwrong	ΔprobΔ										
			3	-	q8	919									
			4	001001	00	001									
	15.12	15.13	5	x	000	s	971								
	.14	.15	6	c	502	s	502								
	.16	.17	7	08	000	u	265								
P1.15	2.2	2.3	8	30	010	u	865								
P1.18	3A.1	3A.2	9	11	000	u	906								

Block #26

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
P1	0.1	1.1	920	31	250	50	977								
	1.2	2.1	1	10	010	u	918								
pl.13	3.1	3.2	2	b	971	s	012								
	.3	.4	3	09	000	h	501								
	.5	.6	4	a	251	c	251								
	.7	.8	5	b	255	a	501								
	3.9	3.10	6	c	255	u	860								
	16.10	16.11	7	k	000	p	971								
	.12	.13	8	x	000	h	502								
	.14	.15	9	a	294	c	294								
	.16	.17	930	b	295	a	502								
	16.18	16.19	1	c	295	u	978								
	16.24	16.25	2	c	387	b	502								
	.26	.27	3	;6	000	a	390								
	.28	.29	4	c	390	g	502								
	.30	.31	5	b	296	a	502								
	.32	.33	6	c	296	b	297								
	16.34	16.35	7	a	502	c	297								
	17.1	18.1	8	31	430	b	011								
	18.2	18.3	9	a	012	k	000								
	.4	.5	940	p	013	x	000								
	.6	.7	1	k	000	b	974								
	18.8	18.9	2	-		t	960								
	19.1	19.2	3	a	975	t	961								
	20.1	20.2	4	a	975	t	956								
	.3	.4	5	r	959	u	958								
	21.1	22.1	6	31	190	b	277								
	22.2	22.3	7	c	503	v	278								
	22.4	23.1	8	w	504	30	860								
	24.1	24.2	9	y	860	z	250								
	.3	.4	950	y	870	z	260								
	.5	.6	1	y	880	z	270								
	25.1	25.2	2	b	503	c	277								
	.3	.4	3	v	504	w	278								
P1.9	26.1	26.2	4	13	000	-									
	26.3	26.4	5	30	860	u	300								
P1.7	27.1	27.2	6	r	959	t	958								
	.3	.4	7	30	190	u	954								
P1.8	28.1	28.2	8	31	070	31	130								
	.3	.4	9	-		-									
P1.5	29.1	29.2	960	30	070	u	954								
pl.6	30.1	30.2	1	31	070	30	130								
	.3	.4	2	-		u	954								
	7.3	7.4	3	b	965	a-	971								
	7.5	7.6	4	a-	972	c	965								
	8.1	8.2	5	l	047	b	046								
	8.3	8.4	6	-1	000	c	500								
	9.1	9.2	7	d-	500	u	251								
	13.3	13.4	8	b	256	a	972								
	13.5	13.6	9	c	256	u	255								
			970	099999	999999										
			1	-		00	001								
			2	00	001	-									
			3	-		re	007								
			4	-		00	054								
			5	-		00	060								
			6	001001	-										
			7	BRtype	ΔtimeR										
	16.20	16.21	8	b	502	;6	000								
	16.22	16.23	9	a	387	u	932								

Block #27

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
P1.0	4.1	4.2	250	b	972	04	000								
P1.1	5.1	5.2	1	c	99037	-						XX	$\Delta_{\ell-1}$		
	6.1	6.2	2	b	251	a	976						Δ_{ℓ}		
	7.1	7.2	3	c	251	u	963								
P1.2	10.1	10.2	4	33	310	-									
P1.3	11.1	11.2	5	899047	m	047						XX	$M(\Delta_{\ell})$		$M(\Delta_{\ell})$
	11.3	12.1	6	c	047	b	255						$M(\Delta_{\ell})$		
	12.2	12.3	7	a	971	a	976								
	13.1	13.2	8	c	255	u	968								
P1.4	14.1	15.1	9	33	370	b	501								
	15.2	.3	260	a	286	c	286								
	.4	.5	1	s	014	09	000								
	.6		2	a	284	c	284								
	.8		3	l	014	p	012								
	15.10	15.11	4	x	000	u	915								
	15.18	15.19	5	a	296	c	296								
	.20	.21	6	b	015	s	971								
	.22	.23	7	h	014	k	000								
	.24	.25	8	p	012	x	000								
	.26	.27	9	x	000	h	502								
	.28	.29	270	a	285	c	285								
	.30	15.31	1	b	286	a	502								
	15.32	16.1	2	c	286	s	016								
	16.2	.3	3	s	012	09	000								
	.4	.5	4	a	501	a	294								
	.6	.7	5	c	294	b	012								
	16.8	16.9	6	a	012	u	927								
			7	Rxsec	Δ calc Δ				P _{0.1}						
			8	starti	ng''''				P _{0.2}						
			9	ending	''''''				P _{0.3}						
			280	Rxsec	Δ err Δ R				P _{4.1}						
			1	z91650	z	740			D _{1.1}						
			2	a- 630	h	630			D _{1.2}						
			3	c	631	b	366		D _{1.3}						
			4	a97630	a	631			D _{1.4}						
			5	k	000	s	630		D _{1.5}						+2(3+G)L
			6	b99500	s	631			D _{1.6}						+2(3+G)L
			7	l	499	m	077		D _{3.1}						
			8	-	-	-			D _{3.2}						
			9	-	-	-			D _{3.3}						
			290	-	-	-			D _{4.1}						
			1	-	-	-			D _{4.2}						
			2	-	-	-			D _{4.3}						
			3	y4	510	z	500		D _{2.1}						
			4	l99473	d	630			D _{5.1}						+2L
			5	-	c	630			D _{5.2}						+2L
			6	099990	d	630			D _{5.3}						+6L
			7	-	c	630			D _{5.4}						+6L
			8	b	630	l	631		D _{6.1}						
			9	w4	570	-			D _{7.1}						
X ₀	0.1	0.2	300	50	277	50	278								
	1.1	1.2	1	12	000	32	510								
	2.1	2.2	2	c	495	c	495								
X _{0.1}	3.1	3.2	3	b	495	l	010								
	3.3	3.4	4	-	-	q	324								
X ₁	10.1	10.2	5	a	467	c	495								
	11.1	11.2	6	b	384	a	467								
	11.3	12.1	7	c	384	b	281								
	12.2	13.1	8	c	313	c	630								
	13.2	14.1	9	c	631	v	630								

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
	14.2	14.3	310	w	632	w	634								
	14.4	14.5	1	w	636	w	638								
	15.1	15.2	2	y	630	z	640								
x _{1.1}	16.1	16.2	3	-	-	-	-								
	17.1	17.2	4	b	313	a	478								
x _{1.3}	18.1	18.2	5	c	313	u	313								
x _{1.2}	19.1	19.2	6	v	282	w	288								
	1A.1	1A.2	7	v	284	w	290								
	.3	.4	8	b	286	c	292								
x _{0.2}	4.1	4.2	9	a	467	h	494								
	5.1	5.2	320	l	015	t	330								
	.3	.4	1	r	449	u	334								
			2	r	449	u	339								
	9.1	9.2	3	b	494	u	319								
x _{0.3}	6.1	6.2	4	55	570	55	570								
	.3	.4	5	62	000	65	000								
	7.1	7.2	6	50	277	50	279								
P ₂	8.1	8.2	7	33	920	31	920								
	8.3	8.4	8	50	979	b	016								
	8.5	8.6	9	-6	000	u	479								
x _{0.4}			330	r	449	u	421								
			1	r	449	u	450								
			2	r	449	u	377								
			3	-	-	u	303								
x ₂	20.1	20.2	4	y5	520	z	500								
	21.1	21.2	5	b	334	a	476								
	22.1	22.2	6	c	334	u	449								
	23.1	23.2	7	b	293	32	510								
	.3	.4	8	-	-	u	336								
x ₃	30.1	30.2	9	b	287	c	351								
x _{3.1}	31.1	31.2	340	a	467	c	496								
	.3	.4	1	b	467	c	497								
	32.1	32.2	2	b	288	h	352								
	.3	.4	3	h	367	a	469								
	.5	.6	4	c	354	b	289								
	32.7	33.1	5	c	368	b	351								
	33.2	.3	6	a	468	h	351								
	.4	.5	7	h	366	a-	467								
	33.6	33.7	8	c	353	-	-								
x _{3.2}	34.1	34.2	9	l	011	b	497								
	.3	.4	350	-	-	t	366								
	35.1	35.2	1	-	-	-	-								
	.3	.4	2	-	-	-	-								
	.5	.6	3	-	-	-	-								
	35.7	35.8	4	-	-	-	-								
	36.1	36.2	5	b	353	a	467								
x _{3.4}	37.1	37.2	6	h	351	h	366								
	.3	.4	7	a	467	c	353								
	38.1	38.2	8	b	354	a	469								
	.3	.4	9	h	352	h	367								
	.5	.6	360	a	469	c	354								
	.7	.8	1	b	368	a	480								
	38.9	39.1	2	c	368	l	012								
	39.2	39.3	3	b	497	q	370								
	3A.1	3A.2	4	a	467	c	497								
	.3	.4	5	-	-	u	349								
x _{3.3}	3B.1	3B.2	6	-	-	-	-								
	.3	.4	7	-	-	-	-								
	3B.5	3C.1	8	-	-	-	-								
	3C.2	3C.3	369	a	467	u	356								

Block #30

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
	45.5	45.6	430	.3	000	q	435								
	46.1	46.2	1	50	280	50	500								
	.3	.4	2	50	495	90	000								
	.5	.6	3	90	000	u	433								
	44.3	44.4	4	b	500	u	424								
x _{4.2}	47.1	47.2	5	b	292	a	470								
	.3	.4	6	a	474	-									
	48.1	48.2	7	c	292	u	439								
	49.1	49.2	8	-		u	449								
	48.3	48.4	9	b	291	a	470								
	.5	.6	440	c	291	b	290								
	.7	.8	1	a	471	c	290								
	48.9	48.10	2	-		u	421								
x ₇	70.1	70.2	3	c	501	v	500								
	71.1	71.2	4	w	4570	-									
	72.1	72.2	5	b	444	a	477								
	73.1	73.2	6	c	444	u	420								
	74.1	74.2	7	b	299	55	570								
	74.3	74.4	8	-		u	446								
			9	-		-									
x ₅	50.1	50.2	450	v	294	w	452								
	.3	.4	1	v	296	w	482								
x _{5.1}	51.1	51.2	2	-		-									
	.3	.4	3	-		-									
	52.1	52.2	4	b	452	a	474								
	53.1	53.2	5	a	467	u	461								
	52.3	52.4	6	-		u	481								
			7	-		-									
	55.1	55.2	8	b	482	a	475								
	56.1	56.2	9	a	467	u	464								
	55.3	55.4	460	-		u	449								
	53.3	53.4	1	c	452	b	453								
	.5	.6	2	a	467	c	453								
	53.7	53.8	3	-		u	452								
	56.3	56.4	4	c	482	b	483								
	.5	.6	5	a	467	c	483								
	56.7	56.8	6	-		u	481								
			7	-		00	001								
			8	00	001	-									
			9	00	001	00	001								
			470	-		00	002								
			1	00	002	00	002								
			2	00	002	00	001								
			3	01	000	-									
			4	001000	-										
			5	00	100	-									
			6	01	010	-									
			7	002002	-										
			8	001010	00	010									
	8.7	8.8	9	c	016	u	920								
			480	00	002	-									
x _{5.2}		54.0	1	-		l	475								
	54.1	54.2	2	-		-									
	.3	.4	3	-		-									
	54.5	54.6	4	-		u	458								
			5	-		-									
			6	-		-									
			7	-		-									
			8	-		-									
			9	-		-									

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
x6.0	6B.1	6B.2	860	b	381	h	869								
	.3	.4	1	a-	874	c	862								
	6C.1	6C.2	2	-	-	-	-						C _{6C.1}	C _{6C.2}	
	6D.1	6D.2	3	c	500	j	501								
	6E.1	6E.2	4	b	381	l	875								
	.3	.4	5	-	-	t	867								
	6F.1	6F.2	6	c	500	c	500								
	6G.1	6G.2	7	b	501	s-	500								
	.3	.4	8	c	501	-	-								
	6H.1	6H.2	9	-	-	-	-						C _{6H.1}	C _{6H.2}	
	6I.1	6I.2	870	09	000	k	000								
	6J.1	6J.2	1	d-	501	-	-								
	.3	.4	2	r	420	u	443								
	6K.1	6K.2	3	-	-	u	381								
			4	00	812	00	803								
			5	b	017	l	027								
P214			6	b	932	c	880								
			7	b	935	c	892								
			8	b	945	a-	896								
			9	c	896	u	906								
	1G.1	1G.2	880	-	-	-	-						C _{1G.1}	C _{1G.2}	
	.3	.4	1	h	990	g	991								
	1H.1	1H.2	2	s-	991	c	995								
	1I.1	1I.2	3	-	-	b	016								M _{1I} (H _L)
	.3	.4	4	09	000	k	000								
	.5	.6	5	d-	995	k	000								
	.7	.8	6	m	902	h	995								
	1J.1	1J.2	7	a-	990	h	992								
	1K.1	1K.2	8	a-	995	k	000								
	1L.1	1L.2	9	m	992	k	000								
	.3	.4	890	m	990	u	903								
	1P.1	1P.2	1	a-	992	k	000								
	1Q.1	1Q.2	2	-	-	-	-						C _{1Q.1}	C _{1Q.2}	
	1R.1	1R.2	3	l	993	m	993								
	.3	.4	4	k	000	m	993								
	.5	1S.1	5	k	000	d-	992								
	1S.2	1S.3	6	-	-	c	996						C _{1S.2}	C _{1S.3}	
	1T.1	1T.2	7	b	012	l	011								
	1T.3	1T.4	8	-	-	t	901								
	1U.1	1U.2	9	b	994	a-	996								
	.3	.4	900	c	994	-	-								
	1V.1	1V.2	1	33	860	u	960								
			2	-0	500	-	-								
	1L.5	1M.1	3	c	992	l	991								
	1M.2	1M.3	4	m	991	k	000								
	1N.1	1N.2	5	n	991	u	891								
	1F.1	1F.2	6	b	883	a-	012								
	1F.3	1F.4	7	c	883	u	880								
			8	-	-	-	-								
			9	-	-	-	-								
			910	-	-	-	-								
			1	-	-	-	-								
			2	-	-	-	-								
			3	-	-	-	-								
			4	-	-	-	-								
			5	-	-	-	-								
			6	-	-	-	-								
			7	-	-	-	-								
			8	-	-	-	-								
			9	-	-	-	-								

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
P201	02.1	03.1	920	33	770	-									
	03.2	04.1	1	50	978	b	923								
	04.2	.3	2	a-	011	c	923								
	05.1	05.2	3	-		b	829								M(b _c)
	.3	06.1	4	c	993	l	923								
	06.2	.3	5	r	859	q2	856								
P1	11.1	11.2	6	c	998	c	998								
	.3	.4	7	c	994	c	829								
P211	12.1	12.2	8	b	998	a-	958								
	12.3	13.1	9	h	998	l	012								
	13.2	13.3	930	-		q	876								
	14.1	14.2	1	l	011	t	952								
P212	15.1	15.2	2	b	830	f	829						M(b _g)		M(b _{g-1})
	.3	.4	3	h	991	g	990								
	16.1	16.2	4	s-	990	k	000								
	.3	.4	5	m	770	c	992						M(S _{lg})		
	.5	.6	6	l	993	d-	992								
	.7	17.1	7	c	992	b	991								
	17.2	.3	8	a-	990	k	000								
	.4	.5	9	m	991	c	991								
	18.1	18.2	940	l	990	m	990								
	.3	.4	1	a-	991	k	000								
	19.1	19.2	2	m	992	c	992								
	1A.1	1A.2	3	l	993	m	993								
	.3	.4	4	k	000	d-	992								
	.5	.6	5	h	980	-							M(Y _g ⁰)		
	1B.1	1B.2	6	a-	994	c	994						C1B.1	C1B.2	
	1C.1	1C.2	7	b	932	a-	959								
	.3	.4	8	c	932	b	945								
	.5	.6	9	a-	956	c	945								
	.7	.8	950	h	935	a-	956								
	.9	.10	1	c	935	u	928								
P213	1D.1	1D.2	2	c	946	c	946								
	.3	.4	3	-		u	932								
			4	-		-									
			5	-		-									
			6	00	001	-									
			7	063661		977236									
			8	-		00 001									
			9	00 001		00 001									
P2	20.1	20.2	960	33	070	50	977								
	21.1	21.2	1	r	859	q2	856								
	22.1	22.2	2	64	000	b	017								
	.3	.4	3	c	880	b	018								
	.5	.6	4	c	881	b	019								
	.7	.8	5	c	882	b	020								
	.9	.10	6	c	883	b	021								
	.11	.12	7	c	884	b	022								
	.13	.14	8	c	885	b	023								
	.15	.16	9	c	886	b	024								
	.17	.18	970	c	887	b	025								
	.19	.20	1	c	888	b	026								
	.21	.22	2	c	889	v	782								
	.23	.24	3	w	896	-									
	.25	.26	4	s-	781	c	893								
	22.27	22.28	5	b	008	c	890								
	23.1	23.2	6	33	920	u	920								
			7	Rprel1	mΔ2-2'				PRELIM	2-2					
			8	Rprel1	mΔ2-1'				PRELIM	2-1					
			9	Rprel1	mΔ2-0'				PRELIM	2-0					

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
S20	20.1	20.2	920	50	935	c	990								
	.3	.4	1	v	936	w	928								
	.5	.6	2	r	934	u	928								
	21.1	21.2	3	v	928	w	928								
	.3	.4	4	r	934	u	928								
	22.1	22.2	5	45	920	b	008								
	.3	.4	6	a-	061	c	008								
	.5	.6	7	b	990	u	012								
	23.1	23.2	8	-	-	-	-								
	.3	.4	9	-	-	-	-								
S21	24.1	24.2	930	b	929	s-	061								
	24.3	25.1	1	c	929	b	928								
	25.2	.3	2	a	061	a	065								
	.4	.5	3	c	928	u	928								
	26.1	26.2	4	-	-	-	-								
			5	ΔVres	ca l e''										
			6	099400	b	992									
			7	-1 000	c	992									
			8	099900	b	000									
			9	-1 000	c	000									
			880	-	-	-	-								
			1	-	-	-	-								
			2	-	-	-	-								
			3	-	-	-	-								
			4	-	-	-	-								
			5	-	-	-	-								
			6	-	-	-	-								
			7	-	-	-	-								
			8	-	-	-	-								
			9	-	-	-	-								
			890	-	-	-	-								
			1	b	000	:1	000								
			2	b	000	:1	000								
			3	-	-	-	-								
			4	-	-	-	-								
			5	01 000	-	-	-								
			6	-	-	-	-								
			7	-	-	-	-								
			8	b99zzz	a-	000									
			9	-0 000	h	991									
			900	l	895	m	000								
			1	b	000	u	zty								
			2	b	000	-2	000								
			3	c	000	c	000								
			4	b	000	-2	000								
			5	c	000	c	000								
			6	Rsource	e''R''										
			7	Rconve	rged'R										
			8	Rcriti	cal'R'										
S10	100.1	100.2	9	b	898	c	911								
	.3	.4	910	c	999	50	906								
	101.1	101.2	1	-	-	-	-								
	101.3	102.1	2	c	999	b	911								
	102.2	.3	3	a	069	c	911								
	.4	103.1	4	-	-	u	911								
S100	104.1	104.2	5	43	920	a	008								
	.3	.4	6	09	000	01	000								
	.5	.6	7	a	899	h	919								
	.7	105.1	8	c	924	b	063								
	106.1	106.2	9	-	-	-	-								

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
			070	-		10 000				10^{-6}					
			1	00-999		00-999				$\cdot(-1)^*$					
			2	a97zz+		c 980				D_{30}					
			3	v4 920		b ψ wz				D_{31}					
			4	a99zz+		c 980				D_{40}					
			5	g4 860		c 861				D_{111}					
			6												
			7	-											
			8	g 000		c 000				C_5					
			9	m 000		a 000				C_6					
			080	a- 000		c 000				D_{55}					
			1	a- 000		c 000				D_{5A}					
			2	a- 000		c 000				D_{55}					
			3	a- 000		c 000				D_{5A}					
			4	-		-									
			5	-		-									
			6	m99984		c zz+				D_{52}					
			7	l 992		m 000				D_{12}					
			8	d 990		a 000				D_{13}					
			9	m 000		a- 000				D_{71}					
			090	-		-									
			1	-		-									
			2	-		-									
			3	-		-									
			4	-		-									
			5	-		-									
			6	-		-									
			7	-		-									
			8	-		-									
			9	-		-									
			100	-		-									
			1	-		-									
			2	-		-									
			3	-		-									
			4	-		-									
¹ 54			5	b 991		-									
			6	-		-									
			7	b 990		i6 000									
			8	a- 990		a- 106									
			9	c 106		u 117									
¹ 5	50.1	50.2	110	b 090		a- 071									
	.3	.4	1	h 090		c 106									
	.5	.6	2	b 091		a- 071									
	.7	.8	3	h 091		c 125									
	.9	.10	4	l 992		b 101									
¹ 51	51.1	51.2	5	a- 102		c 990									
	.3	.4	6	b 086		c 117									
¹ 52	52.1	52.2	7	-		-									
	53.1	53.2	8	b 117		a 069									
	54.1	54.2	9	c 117		u 105									
¹ 53	57.1	57.2	120	b 106		i6 000									
	57.3	58.1	1	c 122		b 991									
	58.2	58.3	2	-		-									
¹ 59	59.1	59.2	3	m 983		c 990									
	.3	.4	4	l 064		d- 990									
	5A.1	5A.2	5	-		-									
	.3	.4	6	-		-									
			7	Rba Δ c		k $\Delta\Delta\Delta$ 00				K20					
¹ 6	60.1	60.2	8	b 092		a- 071									
	60.3	60.4	9	h 092		c 106									

CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
P221	24.1	24.2	920	b	014	s-	978								
	.3	.4	1	h	997	k	000								
	.5	.6	2	b	010	c	103								
	.7	.8	3	b	012	c	102								
	.9	.10	4	b	784	c	101								
	.11	.12	5	p	102	j	995								
	.13	.14	6	p	101	j	996								
	.15	24.16	7	b	785	a-	101								
	24.17	25.1	8	h	990	a-	878								
	25.2	25.3	9	c	878	b	879								
	.4	.5	930	s-	990	c	879								
	.6	.7	1	b	990	a-	101								
	.8	25.9	2	s-	979	h	990								
	26.1	26.2	3	06	000	a-	903								
	.3	.4	4	c	903	b	990								
	.5	.6	5	a-	101	a-	102								
	.7	.8	6	h	990	061000			1000*						
	.9	.10	7	a-	892	c	892								
	.11	.12	8	b	990	a-	996								
	26.13	.14	9	a-	995	a-	995								
	.15	.16	940	h	990	a-	900								
	.17	.18	1	c	900	b	990								
	.19	.20	2	06	000	a-	905								
	.21	.22	3	c	905	b	990								
	.23	.24	4	a-	102	h	990								
	.25	.26	5	06	000	a-	891								
	.27	.28	6	c	891	b	990								
	.29	.30	7	06	000	a-	902								
	.31	.32	8	c	902	b	990								
	26.33	26.34	9	a-	903	c	903								
P222	27.1	27.2	950	b	990	a-	101								
	.3	.4	1	a-	102	h	990								
	.5	.6	2	06	000	a-	901								
	.7	.8	3	c	901	b	990								
	.9	.10	4	a-	905	c	905								
	.11	.12	5	b	990	06	000								
	.13	.14	6	a-	904	c	904								
	.15	.16	7	b	990	a-	979								
	27.17	27.18	8	a-	898	c-	898								
	28.1	28.2	9	b	979	s-	011								
	.3	.4	960	09	000	a-	898								
	.5	.6	1	c	898	s-	102								
	.7	.8	2	a-	977	u	974								
	28.13	28.14	3	c	901	b	904								
	.15	.16	4	a-	991	c	904								
	.17	.18	5	s-	101	09	000								
	.19	.20	6	a-	991	-									
	.21	.22	7	a-	902	c	902								
	.23	.24	8	s-	990	a-	101								
	.25	.26	9	s-	102	a-	785								
	.27	.28	970	08	000	a-	878								
	28.29	29.1	1	c	878	l	978								
	29.2	.3	2	r	859	q2	856								
	2A.1	2A.2	3	33	920	u	920								
	28.9	28.10	4	09	000	h	991								
	28.11	28.12	5	a-	901	u	963								
			6	-	-	-	-								
			7	-	-	00	099		99*						
			8	-	-	00	003		3*						
			9	-	-	00	001		1*						

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
P ₂	30.1	30.2	920	b	922	k	000								
	.3	.4	1	r	859	q2	856								
	31.1	31.2	2	54	860	50	962								
	32.1	33.1	3	33	010	c	998								
	33.2	.3	4	c	998	c	829								
	.4	.5	5	-		u	938								
P231	34.1	34.2	6	b	830	h	990						M($\bar{b}$)		
	.3	.4	7	s-	829	c	991						M($\bar{b}$ -1)		
	35.1	35.2	8	d-	991	h	820								M(Δ)
	.3	36.1	9	c	991	b	938								
	36.2	.3	930	a-	960	c	938								
	.4	.5	1	b	926	a-	960								
	.6	.7	2	c	926	h	927								
	.8	.9	3	a-	960	c	927								
	.A	.B	4	b	928	a-	961								
	36.C	37.1	5	c	928	b	998								
	37.2	37.3	6	a-	961	h	998								
	38.1	38.2	7	l	102	q	940								
P230	39.1	39.2	8	h	880	9	000						M(H)		
	.3	.4	9	k	000	u	926								
P232	3A.1	3A.2	940	l	957	d-	993								
	.3	3B.1	1	c	992	l	992								
	3B.2	.3	2	m	992	c	992								
	.4	.5	3	m	992	c	992								
	3C.1	3C.2	4	l	958	m	990								
	.3	.4	5	c	990	l	992								
	.5	.6	6	d-	990	k	000								
	3D.1	3D.2	7	m	991	c	085								
	3E.1	3E.2	8	l	992	d-	959								
	3E.3	3F.1	9	c	992	l	991								
	3F.2	3F.3	950	m	992	c	992								
	.4	.5	1	m	992	c	084								
	.6	.7	2	y	820	z	830								
	3G.1	3G.2	3	b	781	c	104								
	3H.1	3H.2	4	b	922	k	000								
	.3	.4	5	r	859	q2	856								
	3I.1	3I.2	6	33	920	u	920								
			7	01	000	-									
			8	00	015	-									
			9	-	15	000									
			960	00	001	-									
			1	-	00	001									
			2	Rpre	l1	m	2-3'								
			3	-	-	-									
			4	-	-	-									
			5	-	-	-									
			6	-	-	-									
			7	-	-	-									
			8	-	-	-									
			9	-	-	-									
			970	-	-	-									
			1	-	-	-									
			2	-	-	-									
			3	-	-	-									
			4	-	-	-									
			5	-	-	-									
			6	-	-	-									
			7	-	-	-									
			8	-	-	-									
			9	-	-	-									

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
S ₂	27.1	27.2	010	45	920	34	920								
	28.1	28.2	1	44	920	u	920								
S ₂₂	29.1	29.2	2	35	920	35	920								
	29.3	29.4	3	-	-										
S ₃	30.1	30.2	4	h	072	c	040								
	30.3	30.4	5	r	043	u	032								
	31.1	31.2	6	l	980	m	981								
	.3	.4	7	a-	070	a-	070								
	.5	.6	8	l	064	c	990								
	.7	.8	9	d-	990	c	981								
	32.1	32.2	020	b	032	k	000								
	.3	.4	1	r	859	q1	856								
	.5	.6	2	-	-										
S ₃₁	33.1	33.2	3	v4	920	b	ψwz								
	.3	.4	4	a	023	a	069								
	34.1	34.2	5	-	-	u	027								
	35.1	35.2	6	b	073	35	920								
S ₃₃	36.1	36.2	7	c	023	w	990								
	37.1	37.2	8	b	990	s-	991								
	37.3	37.4	9	c	990	m	990								
	37.5	37.6	030	-	-										
S ₄	40.1	40.2	1	b	074	c	040								
S ₄₁	41.1	41.2	2	r	030	u	023								
	42.0	42.1	3	w	076	-									
	43.1	43.2	4	r	030	u	023								
	44.1	44.2	5	w	096	l	104								
	45.1	45.2	6	r	030	u	023								
	46.1	46.2	7	p	097	01	000								
	.3	.4	8	k	000	w	098								
	47.1	47.2	9	r	030	u	023								
	48.1	48.2	040	-	-										
	49.1	49.2	1	b	040	a	069								
	50.1	50.2	2	c	040	u	039								
	.3	.4	3	-	-										
I ₃	I 30.1	I 30.2	4	r	013	l	095								
I ₃₁	31.1	32.1	5	p	992	c	990								
	32.2	33.1	6	j	991	l	062								
	33.2	33.3	7	d	990	c	990								
	34.1	34.2	8	b	991	u	050								
I ₃₅	35.1	35.2	9	l	095	u	010								
	34.3	34.4	050	-6	000	a-	990								
	.5	.6	1	h	997	u	022								
I ₁₃	I130.1	I130.2	2	l	057	m	094								
	130.3	130.4	3	r	013	c	030								
I ₁₃₁	131.1	131.2	4	l	030	u	045								
			5	-	-										
			6	00	500	-									
			7	033333	333333										
			8	005000	-										
			9	00	066	666667									
			060	00	001	00	001								
			1	-	-	00	001								
			2	00	001	-									
			3	01	000	-									
			4	001000	-										
			5	00	100	-									
			6	002002	00	002									
			7	05	000	-									
			8	025000	-										
			9	001001	00	001									

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
P ₂	0.1	1.1	920	50	976	b	979								
	1.2	1.3	1	s-	997	h	991								
	1.4	2.1	2	09	000	a-	074								
	2.2	3.1	3	c	074	b	061								
	3.2	3.3	4	s-	997	09	000								
	4.1	4.2	5	a-	086	c	086								
	5.1	5.2	6	b	785	06	000								
	.3	.4	7	a-	078	c	078								
	.5	.6	8	b	785	a-	784								
	.7	6.1	9	h	990	a-	078								
	6.2	6.3	930	c	078	b	990								
	.4	.5	1	a-	087	c	087								
	7.1	7.2	2	b	990	a-	784								
	.3	.4	3	s-	061	h	990								
	8.1	8.2	4	06	000	a-	079								
	.3	.4	5	c	079	b	990								
	.5	.6	6	a-	061	a-	088								
	.7	9.1	7	c	088	b	990								
	9.2	.3	8	a-	102	a-	784								
	.4	10.1	9	h	990	a-	079								
	10.2	11.1	940	c	079	b	990								
	11.2	.3	1	a-	784	a-	102								
	.4	.5	2	a-	061	h	990								
	.6	.7	3	a-	080	c	080								
	12.1	12.2	4	b	990	a-	784								
	.3	.4	5	a-	102	h	990								
	13.1	13.2	6	06	000	a-	080								
	.3	14.0	7	c	080	l	991								
	14.1	.2	8	p	784	u	973								
	14.9	14.10	9	a-	995	a-	102								
	.11	.12	950	a-	102	h	990								
	15.1	15.2	1	a-	082	c	082								
	16.1	16.2	2	b	990	s-	061								
	.3	.4	3	a-	089	c	089								
	17.1	17.2	4	b	990	a-	102								
	18.1	18.2	5	06	000	u	971								
P ₂₄₀	19.1	19.2	6	b	990	a-	995								
	19.3	20.1	7	h	990	s-	061								
	.2	.3	8	06	000	a-	089								
	20.4	21.1	9	c	089	b	990								
	21.2	21.3	960	a-	784	a-	102								
	.4	22.1	1	h	990	a-	081								
	22.2	22.3	2	c	081	b	990								
	.4	.5	3	06	000	a-	081								
	22.6	23.1	4	c	081	b	990								
	23.2	.3	5	a-	102	h	990								
	.4	.5	6	a-	083	c	083								
	.6	.7	7	b	990	06	000								
	.8	.9	8	a-	083	c	083								
	23.10	23.11	9	l	976	q7	856								
	24.1	24.2	970	33	920	u	920								
	18.3	18.4	1	a-	082	c	082								
	.5	.6	2	-	-	u	956								
	14.3	14.4	3	x	000	s-	785								
	.5	.6	4	c	991	s-	991								
	14.7	14.8	5	-	-	u	949								
			6	Rpreli	m/2-4R				PRELIM	2-4					
			7	-	-										
			8	-	-										
			9	-0	000	00	003			-3*					

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
P ₂	50.1	50.2	920	y	770	z	910								
	.3	.4	1	b	785	c	900								
	51.1	51.2	2	y	970	z	310								
	.3	.4	3	z	320	z	330								
	.5	.6	4	z	340	z	350								
	.7	.8	5	z	360	z	370								
	.9	.10	6	z	380	z	390								
	.11	.12	7	z	400	z	410								
	.13	.14	8	z	420	z	430								
	.15	.16	9	z	440	z	450								
	.17	.18	930	z	460	z	470								
	.19	.20	1	z	480	z	490								
	.21	.22	2	z	500	z	510								
	.23	.24	3	z	520	z	530								
	.25	.26	4	z	540	z	550								
	.27	.28	5	z	560	z	570								
	.29	.30	6	z	580	z	590								
	.31	.32	7	z	600	z	610								
	.33	.34	8	z	620	z	630								
	.35	.36	9	z	640	z	650								
	51.37	51.38	940	z	660	z	670								
	.39	.40	1	z	680	z	690								
	.41	.42	2	z	700	z	710								
	.43	.44	3	z	720	z	730								
	.45	.46	4	z	740	z	750								
	.47	.48	5	z	760	z	770								
	.49	.50	6	z	780	z	790								
	.51	.52	7	z	800	z	810								
	51.53	51.54	8	z	820	-									
	52.1	52.2	9	b	900	a-	996								
	.3	.4	950	a-	995	a-	995								
	.5	.6	1	a-	101	a-	101								
	.7	.8	2	a-	101	a-	101								
	.9	.10	3	a-	102	a-	102								
	.11	.12	4	a-	102	a-	102								
	52.13	52.14	5	h	990	u	960								
P250	53.1	53.2	6	k	000	c	840								M53(x)
	54.1	54.2	7	b	956	a-	965								
	.3	55.1	8	c	956	b	990								
	55.2	.3	9	a-	965	h	990								
	56.1	56.2	960	l	967	t	956								
	57.1	57.2	1	33	130	64	000								
	58.1	58.2	2	b	964	k	000								
	.3	.4	3	r	859	q2	856								
	59.1	59.2	4	33	920	u	920								
			5	-	00	001									
			6	00	001	-									
			7	-	00	840									
			8	-	-	-									
			9	-	-	-									
			970	-	-	-									
			1	-	-	-									
			2	-	-	-									
			3	-	-	-									
			4	-	-	-									
			5	-	-	-									
			6	-	-	-									
			7	-	-	-									
			8	-	-	-									
			9	-	-	-									

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
	60.5	60.6	130	b	093	a-	071								
	.7	.8	1	h	093	c	125								
	.9	.10	2	l	994	u	115								
I ₁	10.1	10.2	3	b	138	s-	061								
	.3	.4	4	c	138	b	140								
	.5	.6	5	s-	061	c	140								
	11.1	11.2	6	s-	077	-2	000								
	.3	.4	7	a-	055	c	055								
I ₁₂	12.1	12.2	8	-	-							← C _{12.1}	C _{12.2}	→	
	12.3	13.1	9	c	990	l	064								
	13.2	13.3	140	-	-							← C _{13.2}	C _{13.3}	→	
	.4	.5	1	c	993	u	144								
I ₁₆	16.1	16.2	2	r	013	u	010								
			3	-	-	u	138								
	14.1	14.2	4	l	055	q	146								
	15.0	15.1	5	-	-	d	993								
I ₁₁	110.1	110.2	6	f	008	u	148								
	15.2	15.3	7	-	-	u	142								
I ₁₁₁	111.1	111.2	8	g4	860	c	861					← C _{111.1}	C _{111.2}	→	
	112.1	112.2	9	b	148	a	066								
	113.1	113.2	150	c	148	u	022								
	114.1	114.2	1	b	075	56	860								
	.3	.4	2	-	-	u	150								
I ₂	20.1	20.2	3	h	982	s-	995								
	.3	.4	4	s-	043	j1	000								
	.5	.6	5	.2	000	k	000								
	21.1	21.2	6	b	070	t	239								
	22.1	22.2	7	b	127	a-	998								
	22.3	23.1	8	c	990	50	990								
	24.1	24.2	9	b	062	t	239								
	25.1	25.2	160	50	127	u	000								
I ₄₁	41.1	41.2	1	a	997	a	994								
	43.1	43.2	2	h	994	u	022								
I ₄₄	44.1	44.2	3	r	013	u	010								
I ₄	40.1	40.2	4	b	997	u	161								
I ₇	70.1	70.2	5	l	981	m	994								
	70.3	71.1	6	c	990	l	099								
	71.2	71.3	7	-	-							← C _{71.2}	C _{71.3}	→	
	71.4	72.1	8	c	991	l	065								
	72.2	72.3	9	d-	990	s-	991								
	72.4	73.1	170	c	043	b	167								
	73.2	73.3	1	a-	071	c	167								
	74.1	74.2	2	b	995	u	146								
I ₈	141.1	141.2	3	l	095	m	993								
	141.3	142.1	4	c	990	l	056								
	142.2	142.3	5	d-	990	c	990								
	143.1	143.2	6	l	980	d-	990								
	143.3	143.4	7	c	995	u	211								
I ₁₀	100.1	100.2	8	s-	096	06	000								
	.3	.4	9	s-	096	s-	060								
	.5	.6	180	r	040	u	329								
I ₉	91.1	91.2	1	b	992	s-	993								
	.3	.4	2	k	000	m	095								
	.5	92.1	3	c	990	l	094								
	92.2	.3	4	m	992	a-	990								
	.4	.5	5	h	990	a-	990								
	.6	93.1	6	c	990	a-	095								
	93.2	.3	7	a-	030	k	030								
	.4	.5	8	n	996	c	030								
	94.1	94.2	9	l	997	m	981								

Block #41

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
P252	5A.1	5A.2	920	b	964	a-	990								
	.3	.4	1	a-	101	x	000								
	.5	.6	2	h	939	x	000								
	.7	.8	3	a-	102	a-	996								
	.9	.10	4	a-	995	x	000								
	.11	.12	5	c	935	y	830								
	.13	5B.1	6	z	870	33	190								
	5B.2	5C.1	7	33	250	35	310								
	5C.2	.3	8	b	960	c	998								
	.4	.5	9	y	970	z	830								
	.6	.7	930	c	100	c	999								
	.8	.9	1	b	079	a-	965								
	.10	.11	2	c	079	-	-								
P253	5D.1	5D.2	3	b	980	-2	000								
	.3	.4	4	c	990	l	994								
	.5	.6	5	-	-	-	-								
P254	5E.1	5E.2	6	b	910	-2	000								
	.3	.4	7	k	000	m	100								
	.5	.6	8	c	990	l	994								
	.7	.8	9	-	-	-	-								
	5F.1	5F.2	940	b	939	a-	960								
	.3	.4	1	c	939	x	000								
	.5	.6	2	a-	999	h	999								
	5G.1	5G.2	3	l	880	t	947								
	5H.1	5H.2	4	b	870	-2	000								
	.3	.4	5	a-	100	c	100								
	.5	.6	6	-	-	u	936								
P255	5I.1	5I.2	7	b	935	a-	960								
	.3	.4	8	c	935	b	933								
	.5	.6	9	a-	961	c	933								
	.7	.8	950	x	000	a-	936								
	.9	.10	1	c	936	b	961								
	.11	.12	2	a-	943	c	943								
	.13	.14	3	b	961	a-	944								
	.15	.16	4	c	944	c	999								
	5J.1	5J.2	5	b	960	a-	998								
	5K.1	5K.2	6	l	102	t	966								
	5L.1	5L.2	7	c	998	u	933								
	5M.1	5M.2	8	r	859	q2	856								
P257	5N.1	5N.2	9	v	978	u	971								
			960	-	-	00	001								
			1	00	001	-	-								
	5N.9	5N.10	2	c	008	b	960								
	5P.1	5P.2	3	35	920	u	229								
			4	d-	990	c	000								
			5	00	001	00	001								
P256	5Q.1	5Q.2	6	b	939	a-	970								
	.3	.4	7	6	000	c	968								
	5R.1	5R.2	8	-	-	-	-								
	.3	.4	9	-	-	u	958								
			970	-	-	00	999								
	5N.3	5N.4	1	w	830	w	832								
	5N.5	5N.6	2	b	960	a-	960								
	5N.7	5N.8	3	-	-	u	962								
			4	-	-	-	-								
			5	-	-	-	-								
			6	-	-	-	-								
			7	-	-	-	-								
			8	-	-	-	-								
			9	-	-	-	-								

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
	94.3	94.4	190	h	991	a-	991								
	.5	95.1	1	c	991	l	064								
	96.1	96.2	2	d-	030	a-	991								
	.3	97.1	3	c	991	d-	990								
	97.2	98.1	4	c	990	l	980								
	98.2	.3	5	d-	990	c	990								
	99.1	99.2	6	l	065	d-	991								
	.3	.4	7	a-	990	u	153								
I0	0.1	0.2	8	b	331	a-	060								
	.3	.4	9	c	331	c	992								
	.5	.6	200	y	080	z	090								
	.7	.8	1	b	087	c	138								
	.9	.10	2	b	088	c	140								
	.11	.12	3	b	089	c	167								
	.13	.14	4	b	100	c	055								
Y4	.15	.16	5	r	043	u	031								
	1.1	1.2	6	b	096	c	097								
	.3	.4	7	r	022	u	133								
	.5	.6	8	r	022	u	052								
	3.1	2.1	9	c	996	l	102								
	2.2	2.3	210	b	998	q	173								
Y1	2.4	2.5	1	r	022	u	044								
	4.1	4.2	2	s-	996	c	994								
	.3	.4	3	r	022	u	110								
	5.1	5.2	4	b	095	s-	094								
	.3	.4	5	c	095	f	993								
	.5	.6	6	b	992	c	993								
	5.7	6.1	7	g	992	b	097								
	6.2	.3	8	s-	061	h	097								
	.4	.5	9	k	000	q	230								
	.6	.7	220	r	022	u	133								
	.8	.9	1	r	022	u	044								
	.10	.11	2	r	022	u	164								
	6.12	6.13	3	-		u	213								
J2	3.1	3.2	4	65	000	56	860								
	4.1	5.1	5	34	920	56	860								
	6.1	6.2	6	33	860	u	909								
J0	0.1	0.2	7	b	999	a-	061								
	1.1	1.2	8	l	103	t	224								
J1	2.1	2.2	9	c	999	u	253								
Y2	6.14	6.15	230	r	022	u	052								
	7.1	7.2	1	-		c	996								
	.3	.4	2	r	022	u	044								
	8.1	8.2	3	a-	996	k	000								
	.3	.4	4	m	067	c	997								
	.5	.6	5	r	022	u	164								
	.7	.8	6	r	022	u	146								
	.9	.10	7	r	022	u	165								
	.11	.12	8	-		u	178								
α	9.1	9.2	9	b	982	c	995								
Y3	.3	.4	240	r	022	u	110								
	.5	.6	1	r	022	u	128								
	A.1	B.1	2	l	098	m	098								
	B.2	B.3	3	c	990	m	095								
	B.4	C.1	4	c	991	l	063								
	C.2	.3	5	d-	991	c	095								
	.4	.5	6	l	990	m	094								
	.6	.7	7	c	990	l	064								
	.8	.9	8	d-	990	c	094								
	D.1	D.2	9	b	998	s-	061								

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
	D.3	D.4	250	h	998	k	000								
	.5	.6	1	-		q	227								
	.7	.8	2	-		u	205								
00	0.1	0.2	3	b	078	h	257								
	.3	.4	4	c	305	b	079								
	.5	.6	5	c	331	c	094								
	.7	.8	6	c	992	f	992								
	.9	.10	7	-		-									
α1	1.1	1.2	8	a-	061	c	998								
	.3	.4	9	r	022	u	014								
	2.1	2.2	260	c	097	b	998								
	.3	.4	1	l	061	q	306								
	3.1	3.2	2	l	059	m	077								
	.3	.4	3	c	090	l	076								
	.5	.6	4	d-	090	h	090								
	.7	.8	5	-4	000	c	984								
	4.1	4.2	6	l	098	m	994								
	.3	.4	7	c	994	m	980								
	.5	.6	8	-1	000	c	985								
	.7	.8	9	m	090	c	091								
	.9	.10	270	l	063	d-	091								
	4.11	5.1	1	c	091	l	068								
	5.2	.3	2	m	090	a-	058								
	.4	.5	3	c	092	n	091								
	.6	.7	4	a-	058	c	093								
	6.1	6.2	5	l	989	d-	985								
	.3	.4	6	c	983	-									
	.5	.6	7	r	040	u	328								
	7.1	7.2	8	l	093	m	095								
	.3	.4	9	c	095	m	994								
	.5	.6	280	c	994	a-	091								
	.7	.8	1	-4	000	a-	095								
	7.9	8.1	2	c	095	l	983								
	8.2	.3	3	m	095	c	095								
	.4	.5	4	m	094	c	094								
	.6	.7	5	m	992	c	992								
	.8	.9	6	r	013	-									
	9.1	9.2	7	l	064	d	992								
	10.1	10.2	8	c	992	u	290								
	9.3	9.4	9	-		u	010								
02	11.1	11.2	290	d-	094	c	094								
	.3	.4	1	d-	095	c	095								
	12.1	12.2	2	l	092	m	996								
	.3	.4	3	-1	000	c	996								
	.5	.6	4	m	981	a-	095								
	.7	.8	5	a-	984	c	095								
	.9	.10	6	l	063	d-	095								
	.11	.12	7	c	095	r	013								
	13.1	13.2	8	b	994	a	996								
	14.1	14.2	9	c	984	u	301								
	13.3	13.4	300	-		u	010								
03	15.1	15.2	1	l	064	d	984								
	16.1	16.2	2	c	994	u	311								
	15.3	15.4	3	-		u	010								
01	22.0	22.1	4	-		f	094								
	22.2	22.3	5	-		-									
γ	.4	.5	6	r	040	u	328								
	23.1	23.2	7	c	994	b	097								
	.3	.4	8	a-	061	h	097								
	23.5	23.6	9	l	096	q	325								

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
	24.1	24.2	310	b	981	c	095								
	17.1	17.2	1	b	060	a-	305								
	.3	18.1	2	c	305	a-	094								
	18.2	.3	3	-2	000	a-	095								
	.4	.5	4	k	000	d-	070								
	.6	.7	5	c	094	r	013								
	19.1	19.2	6	l	980	m	994								
	.3	.4	7	c	986	l	065								
	.5	.6	8	d	986	a	992								
	20.1	20.2	9	k	000	u	321								
	19.7	19.8	320	-		u	010								
	20.3	20.4	1	m	094	c	986								
	.5	.6	2	l	064	d	986								
	21.1	21.2	3	h	992	u	304								
	20.7	20.8	4	-		u	010								
	25.1	25.2	5	f	980	b	998								
	.3	.4	6	l	102	q	198								
	26.1	26.2	7	g	989	u	258								
01	27.1	27.2	8	-		b	060								
112	27.3	27.4	9	a-	331	c	331								
	28.1	28.2	330	r	013	l	099								
	29.1	29.2	1	-		-									
	30.1	30.2	2	h	996	u	040								
	29.3	29.4	3	-		u	010								
			4	-		-									
			5	-		-									
			6	-		-									
			7	-		-									
			8	-		-									
			9	-		-									
			0	-		-									
			1	-		-									
			2	-		-									
			3	-		-									
			4	-		-									
			5	-		-									
			6	-		-									
			7	-		-									
			8	-		-									
			9	-		-									
			0	-		-									
			1	-		-									
			2	-		-									
			3	-		-									
			4	-		-									
			5	-		-									
			6	-		-									
			7	-		-									
			8	-		-									
			9	-		-									
			0	-		-									
			1	-		-									
			2	-		-									
			3	-		-									
			4	-		-									
			5	-		-									
			6	-		-									
			7	-		-									
			8	-		-									
			9	-		-									
			0	-		-									
			1	-		-									
			2	-		-									
			3	-		-									
			4	-		-									
			5	-		-									
			6	-		-									
			7	-		-									
			8	-		-									
			9	-		-									

CONNECTOR ENTRY	ORDER #		STORAGE ASSIGN- MENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
S11	107.1	107.2	920	b	999	-2	000								
	.3	.4	1	c	992	l	991								
	.5	.6	2	d-	992	c	998								
	110.1	110.2	3	b	896	h	990								
	111.1	111.2	4	-		-									
	112.1	112.2	5	k	000	50	998								
S110	.3	.4	6	r	859	q3	856								
	113.1	113.2	7	b	900	c	939								
	.3	.4	8	b	901	c	936								
	114.1	114.2	9	b	998	s	895								
	115.1	115.2	930	l	000	l	000								
	116.1	116.2	1	l	990	t	941								
	117.1	117.2	2	b	991	c	990								
	118.1	118.2	3	b	939	a	061								
	.3	119.1	4	c	939	b	936								
	119.2	119.3	5	a	069	c	936								
S111	11A.1	11A.2	6	-		-									
	119.4	119.5	7	50	907	u	966								
	11B.1	11B.2	8	-1	000	c	993								
	11C.1	11C.2	9	-		-									
	.3	.4	940	s	993	u	930								
	S13	130.1	130.2	1	b	998	h	985							
131.1		131.2	2	k	000	66	000								
.3		.4	3	r	859	q4	856								
132.1		133.1	4	54	860	b	902								
133.2		.3	5	c	962	b	903								
.4		.5	6	r	960	u	957								
134.1		134.2	7	b	061	44	920								
.3		.4	8	a-	061	c	008								
135.1		135.2	9	b	904	c	962								
.3		.4	950	b	905	-									
S15	.5	.6	1	r	960	u	957								
	136.1	137.1	2	35	860	b	073								
	137.2	.3	3	c	023	b	075								
	.4	138.1	4	c	148	b	061								
	138.2	.3	5	-		-									
	.4	.5	6	35	920	u	229								
	150.1	150.2	7	a	060	c	964								
	151.1	151.2	8	b	962	a	069								
	152.1	152.2	9	c	962	u	961								
	151.3	151.4	960	-		-									
S50	153.1	153.2	1	l	999	-									
	154.1	154.2	2	-		-									
S12	155.1	155.2	3	c	990	d-	990								
	.3	.4	4	-		-									
	156.1	156.2	5	b	964	u	957								
	120.1	121.1	6	50	104	l	897								
	122.1	122.2	7	b	063	s-	998								
	.3	.4	8	h	992	l	000								
S14	.5	.6	9	l	000	t	972								
	123.1	123.2	970	33	920	33	920								
	124.1	124.2	1	35	200	u	200								
	140.1	140.2	2	b	104	s-	893								
	.3	.4	3	k	000	m	992								
	.5	.6	4	c	992	b	998								
	.7	.8	5	s	894	k	000								
	.9	.10	6	d-	992	a-	104								
	141.1	141.2	7	f	104	g	893								
	142.1	143.1	8	c	104	b	998								
	143.2	143.3	9	c	894	u	941								

Block #46

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGN- MENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
S _r	-1.1	-1.2	200	35	920	u	232								
	-1.7	-1.8	1	r	022	u	014								
	0.1	0.2	2	b	079	a-	062								
	.3	.4	3	f	208	e	214								
	.5	.6	4	h	214	.6	000								
	.7	.8	5	f	209	e	213								
	.9	.10	6	c	213	c	055								
	.11	.12	7	c	997	u	210								
	.13	.14	8	111000	111111										
	.15	.16	9	111111	111000										
	1.1	1.2	210	a-	061	c	097								
	2.1	2.2	1	b	077	-2	000								
	.3	.4	2	a-	055	h	055								
	2.5	3.1	3	l	055	d	000								
	4.1	4.2	4	c	000	u	217								
	3.2	3.3	5	r	013	u	010								
	3.4	3.5	6	-		u	213								
	5.1	5.2	7	b	213	a-	061								
	.3	.4	8	c	213	b	214								
	.5	.6	9	a-	062	c	214								
	6.1	6.2	220	b	097	l	096								
	.3	.4	1	-		q	223								
	.5	.6	2	-		u	210								
	7.1	7.2	3	b	997	a-	061								
	.3	.4	4	h	997	l	102								
	.5	.6	5	-		q	229								
	.7	.8	6	r	022	u	014								
	8.1	8.2	7	k	000	c	097								
	.3	.4	8	-		u	213								
	9.1	9.2	9	65	000	33	920								
	10.1	10.2	230	33	920	u	920								
	.3	.4	1	-		-									
	-1.3	-1.4	2	b	073	c	023								
	-1.5	-1.6	3	-		u	201								
			4	-		-									
			5	-		-									
			6	-		-									
			7	-		-									
			8	-		-									
			9	-		-									
			240	-		-									
			1	-		-									
			2	-		-									
			3	-		-									
			4	-		-									
			5	-		-									
			6	-		-									
			7	-		-									
			8	-		-									
			9	-		-									
			250	-		-									
			1	-		-									
			2	-		-									
			3	-		-									
			4	-		-									
			5	-		-									
			6	-		-									
			7	-		-									
			8	-		-									
			9	-		-									

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
			920	33	010	u	010								
			1	R	Δ xx	Δ xx	'T		C ₁						
			2	00	001	-			C ₂						
			3	RR	rAS	l	Δ xx Δ		C ₃						
			4	Lc	Δ 1	'	'U'		C ₄						
			5	Δ L	f Δ 1	U	'		C ₅						
			6	RR	Δ Δ	'	l Δ hT Δ		C ₆						
			7	Δ Δ	ASs	fT	'		C ₇						
			8	' Δ Δ Δ Δ		Si	SeiR		C ₈						
			9	TL	l Δ 1 Δ	U	'RR Δ		C ₉						
			930	Δ l	Δ hT	Δ Δ Δ Δ	S		C ₁₀						
			1	4T	Δ Δ Δ Δ	Δ L	4TU		C ₁₁						
			2	Δ Δ Δ Δ	S	eoT	Δ Δ		C ₁₂						
			3	Δ Δ	SeiR	'	'		C ₁₃						
			4	wrong	Δ	'	'date		C ₁₄						
			5	'	'	'	'		C ₁₅						
			6	001001	-				C ₁₆						
			7	h4	190	-			C ₁₇						
			8	-		00	301		C ₁₈						
			9	Rtaps	Δ	7	Δ fu Δ Δ		C ₁₉						
			940	111111	11	011			C ₂₀						
			1	-		00	001		C ₂₁						
			2	10	000	-			C ₂₂						
			3	111100	111111				C ₂₃						
			4	111111	10	111			C ₂₄						
			5	077000	-				LC ₁						
			6	P'P'	'	'	'		C ₂₆						
			7	R'R'R'	R'R'R'				C ₂₇						
			8	Rend Δ Δ	Δ Δ bc/ Δ				C ₂₈						
3.3	3.4		9	r	975	u	136								
4.1	4.2		950	b	932	-									
.3	.4		1	r	975	u	136								
5.1	5.2		2	b	965	-									
.3	.4		3	r	975	u	136								
.5	.6		4	-		u	976								
36.1	36.2		5	50	934	-									
36.3	.4		6	90	000	u	856								
.5	.6		7	e	933	u	104								
			8	R'R'BR	'R'R'				C ₃₈						
			9	PPPPPP	PPPPPP				C ₃₉						
21.1	21.2		960	e	933	u	092								
			1	-		00	274		C ₄₁						
			2	-		01	000		C ₄₂						
			3	Tpage	Δ	00T	'		PW ₁						
			4	-		u	064		C ₄₄						
			5	'	'	'	'R		C ₄₅						
			6	006000	-				C ₄₆						
			7	v4	250	w	990		C ₄₇						
			8	002002	-				C ₄₈						
			9	111111	101111				C ₄₉						
			970	-	-				C ₅₀ = $(\pi/36)^\circ \times 10^{-5}$						
			1	-	-				C ₅₁ = N°						
			2	-	-				C ₅₂ = L°						
			3	-	-				C ₅₃ = J°						
			4	-	-				C ₅₄ = cm						
			5	-	-								E ₁		
			6	-	-								E ₂		
			7	-	-								E ₃		
			8	-	-								LC		
			9	-	-										

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
	1.3	1.4	010	50	908	66	000								
	1.5	1.6	1	y	100	z	970								
	1.7	1.8	2	33	070	36	130								
	2.1	3.1	3	-		l	961								
	3.2	3.3	4	b	009	t	016								
	4.1	4.2	5	50	099	u	020								
	5.1	5.2	6	b	959	c	190								
	6.1	7.1	7	77	190	50	939								
	7.2	8.1	8	c	009	87	000								
	8.2	8.3	9	90	000	u	015								
E ₅	0.1	0.2	020	b	892	c	038								
	0.3	0.4	1	b	891	c	046								
	0.5	.6	2	b	026	a-	972								
	.7	.8	3	c	026	b	055								
	.9	.10	4	a-	972	c	055								
	1.1	1.2	5	b	972	c	997								
	.3	.4	6	-		b	879								M(H ₁)
	.5	2.1	7	c	992	l	007								
	2.2	2.3	8	r	977	q	955								
	3.1	3.2	9	r	976	u	152								
	3.3	3.4	030	r	976	u	162								
e ₅₂	.5	.6	1	r	975	u	133								
	4.1	4.2	2	b	997	06	000								
	.3	.4	3	f	943	e	921								
	.5	.6	4	c	921	b	992								
	.7	.8	5	03	000	f	944								
	.9	.10	6	e	921	-									
	.11	.12	7	r	975	u	136								
	5.1	5.2	8	b	000	1	000						M(S _{l,h})		
	.3	.4	9	f	941	e	921								
	.5	.6	040	r	975	u	136								
	6.1	6.2	1	l	992	q	046								
e ₅₁	7.1	7.2	2	b	992	s-	941								
	8.1	8.2	3	c	992	b	038								
	.3	.4	4	s-	922	c	038								
	.5	.6	5	-		u	031								
	9.1	9.2	6	b	000	1	000						M(S _{l,h})		
	.3	.4	7	e	933	-									
	.5	.6	8	r	975	u	136								
	10.1	10.2	9	b	997	s-	941								
	.3	.4	050	h	997	k	000								
	.5	.6	1	-		q	057								
	11.1	11.2	2	b	055	s-	941								
e ₅₃	.3	.4	3	c	055	b	046								
	.5	.6	4	s-	922	c	046								
	12.1	12.2	5	-		b	879								M(H _l)
	.3	.4	6	-		u	043								
	13.1	13.2	7	b	941	c	999								
	.3	.4	8	r	975	u	131								
	14.1	14.2	9	b	026	h	061								
	.3	.4	060	c	099	f	972								
	.5	.6	1	-		-								B	M(H _l)
	.7	.8	2	g	997	c	992								
	.9	.10	3	r	976	u	144								
	.11	.12	4	r	976	u	152								
e ₅₉	.13	.14	5	r	976	u	182								
	15.1	15.2	6	b	964	c	977								
	.3	.4	7	r	975	u	133								
	.5	.6	8	b	992	s-	941								
	15.7	15.8	9	c	992	-									

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
	15.9	15.10	070	r	975	u	121								
	16.1	16.2	1	b	997	06	000								
	.3	.4	2	f	943	e	921								
	.5	.6	3	c	921	b	992								
	.7	.8	4	03	000	f	944								
	.9	.10	5	e	921	-									
	.11	.12	6	r	975	u	136								
	17.1	17.2	7	l	992	q	082								
	.3	.4	8	b	990	;1	000								
	.5	.6	9	f	941	e	933								
	.7	.8	080	r	975	u	136								
	.9	.10	1	-		u	066								
e55	18.1	18.2	2	b	990	;1	000								
	.3	.4	3	f	941	e	921								
	.5	.6	4	r	975	u	136								
	.7	.8	5	r	975	u	121								
	19.1	19.2	6	b	990	;1	000								
	.3	.4	7	f	941	e	921								
	.5	.6	8	r	975	u	136								
	.7	.8	9	r	975	u	121								
	20.1	20.2	090	k	000	b	990								
	.3	.4	1	f	942	t	960								
	21.3	21.4	2	-		-									
	.5	.6	3	f	941	e	933								
	.7	.8	4	r	975	u	136								
e56	22.1	22.2	5	k	000	h	997								
	.3	.4	6	s-	941	q	108								
	24.1	25.1	7	c	997	h	099								
	25.2	.3	8	s-	941	c	099								
	26.1	26.2	9	edit	Δr	outline									
	.3	.4	100	c	992	u	066								
e57	.5	.6	1	r	975	u	121								
	27.1	27.2	2	k	000	b	990								
	.3	.4	3	f	942	t	957								
			4	-		-									
			5	r	975	u	136								
	29.1	29.2	6	l	973	b	999								
	.3	.4	7	-		q	110								
	30.1	30.2	8	a-	941	c	999								
	.3	.4	9	-		u	059								
			110	r	976	u	144								
	31.1	31.2	1	b	946	50	948								
	31.3	31.4	2	r	975	u	136								
	32.1	32.2	3	b	136	a	936								
	33.1	33.2	4	b	935	u	112								
	34.1	34.2	5	l	935	j	249								
	.3	.4	6	77	190	50	009								
	.5	.6	7	33	200	30	200								
	35.1	35.2	8	66	000	u	200								
	.3	.4	9	33	860	33	860								
	.5	.6	120	33	920	u	920								
E4	1.1	1.2	1	-		-						V40 + i	250 + i	W	990
e40	5.1	5.2	2	l	990	h	008								
	.3	.4	3	f	969	q	128								
	6.1	6.2	4	s-	990	04	000								
	.3	.4	5	e	126	c	126								
	7.1	7.2	6	b	991	-x	000								
	9.1	9.2	7	c	990	u	129								
	8.1	8.2	8	b	991	u	127								
e42	2.1	2.2	9	b	121	a	968								

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
E ₄₁	2.3	2.4	130	c	121	u	975								
	3.1	3.2	1	b	967	c	121								
	4.1	4.2	2	36	250	u	975								
E ₆	1.1	1.2	3	b	978	a	936								
	2.1	2.2	4	c	978	u	975								
	1.3	1.4	5	-		u	977								
E ₇	1.1	1.2	6	b ₄	190	-						40 + i	x ₁		
	2.1	2.2	7	b	136	a	936								
	3.1	3.2	8	c	136	u	975								
	4.1	5.1	9	77	190	l	938								
	5.2	.3	140	b	009	a-	941								
	.4	.5	1	h	009	q	143								
	6.1	6.2	2	b	937	u	138								
	7.1	7.2	3	90	000	u	856								
	1.1	1.2	4	r	975	-									
E ₈	.3	.4	5	b	978	a	966								
	3.1	3.2	6	c	978	u	150								
	2.1	2.2	7	b	978	a	936								
	4.1	4.2	8	c	978	u	151								
	2.3	2.4	9	-		u	976								
	5.1	5.2	150	b	947	u	136								
	6.1	6.2	1	b	965	u	136								
	1.1	1.2	2	b	958	-									
	1.3	1.4	3	r	975	u	136								
	2.1	2.2	4	b	890	-									
	2.3	2.4	5	r	975	u	136								
	3.1	3.2	6	b	963	a-	962								
	.3	.4	7	h	963	-									
	.5	.6	8	r	975	u	136								
	4.1	4.2	9	b	007	-									
	4.3	4.4	160	r	975	u	136								
	.5	.6	1	-		u	976								
	1.1	1.2	2	b	008	02	000								
E ₉	.3	.4	3	f	940	e	923								
	.5	.6	4	r	975	u	136								
	2.1	2.2	5	b	924	-									
	.3	.4	6	r	975	u	136								
	3.1	4.1	7	b	974	f	942								
	4.2	4.3	8	e	933	-									
	4.4	.5	9	r	975	u	136								
	5.1	5.2	170	b	925	-									
	.3	.4	1	r	975	u	136								
E ₉₁	6.1	7.1	2	b	998	e	933								
	7.2	7.3	3	r	975	u	136								
	8.1	8.2	4	b	926	-									
	.3	.4	5	r	975	u	136								
	9.1	9.2	6	b	927	-									
	.3	.4	7	r	975	u	136								
	10.1	10.2	8	b	945	c	978								
	.3	.4	9	b	928	-									
	.5	.6	180	r	975	u	136								
	.7	.8	1	-		u	976								
	1.1	1.2	2	b	999	03	000								
	.3	.4	3	f	944	e	929								
E ₁₁	.5	.6	4	r	975	u	136								
	2.1	2.2	5	b	189	c	978								
	.3	.4	6	b	930	-									
	.5	.6	7	r	975	u	136								
	3.1	3.2	8	b	931	u	949								
			9	075000	-										
								LC ₀							

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGN- MENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
C1	10.1	11.1	200	23	000	43	860								
	11.2	.3	1	43	860	43	860								
	.4	.5	2	43	860	43	860								
	.6	.7	3	43	860	43	860								
	.8	.9	4	43	860	43	860								
	.10	.11	5	43	860	43	860								
	.12	.13	6	43	860	43	860								
	.14	.15	7	43	860	43	860								
	.16	.17	8	43	860	43	860								
	.18	.19	9	43	860	43	860								
	.20	.21	210	43	860	43	860								
	.22	.23	1	43	860	43	860								
	.24	.25	2	43	860	43	860								
	11.26	12.1	3	43	860	33	860								
	12.2	13.1	4	33	860	33	920								
	13.2	.3	5	b	220	k	000								
	.4	.5	6	-		q9	220								
	.6	.7	7	-		u	920								
			8	-		-									
			9	-		-									
C2	20.1	21.1	220	50	973	10	842								
	22.1	22.2	1	l	842	b	973								
	.3	.4	2	-		t	225								
	23.1	23.2	3	b	973	q	920								
	24.1	24.2	4	33	920	u	223								
	25.1	26.1	5	43	920	43	920								
	27.1	27.2	6	b	973	q	228								
	28.1	28.2	7	43	920	u	226								
	29.1	29.2	8	33	920	33	920								
	29.3	29.4	9	33	920	u	920								
			230	-		-									
			1	-		-									
			2	-		-									
			3	-		-									
			4	-		-									
			5	-		-									
			6	-		-									
			7	-		-									
			8	-		-									
			9	-		-									
			240	-		-									
			1	-		-									
			2	-		-									
			3	-		-									
			4	-		-									
			5	-		-									
			6	-		-									
			7	-		-									
			8	-		-									
			9	-		-									
			250	-		-									
			1	-		-									
			2	-		-									
			3	-		-									
			4	-		-									
			5	-		-									
			6	-		-									
			7	-		-									
			8	-		-									
			9	-		-									

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
P1.10	31.1	31.2	860	b	899	a	501								
	.3	.4	1	c	899	b	884								
	.5	.6	2	a	501	c	884								
	.7	.8	3	b	891	a	501								
	31.9	31.10	4	c	891	u	872								
P1.11	32.1	33.1	5	50	911	10	008								
	34.1	35.1	6	50	010	l	008								
	35.2	35.3	7	b	010	q	922								
	36.1	36.2	8	50	912	u	870								
	37.1	37.2	9	-	-	u	905								
	38.1	38.2	870	90	000	b	913								
	.3	.4	1	c	868	u	865								
P1.16	39.1	39.2	2	b	010	50	010								
	.3	.4	3	.3	000	.3	000								
	39.5	40.1	4	c	010	12	000								
	41.1	42.1	5	32	510	b	010								
	42.2	.3	6	l	510	q	878								
	.4	.5	7	-	-	u	875								
	43.1	43.2	8	42	510	42	510								
	.3	44.1	9	30	510	13	000								
	45.1	45.2	880	l	017	d-	037		M(H ₁)		M(b ₁)				
	.3		1	c	047	-	-		M(Δ ₁)						
	46.1	46.2	2	b	899	a	914								
	47.1	47.2	3	c	899	u	896								
P1.14	50.1	50.2	4	b99037	c	830						xx	M(b ₂)		829 + l
	51.1	51.2	5	b	884	a	914								
	52.1	52.2	6	c	884	u	884								
	53.1	53.2	7	b	015	c	010								
	.3	.4	8	b	014	a	971								
	.5	.6	9	a	971	a	971								
	53.7	53.8	890	a	971	c	015								
	54.1	54.2	1	b99017	.9	000						xx	M(H ₂)		
	.3	.4	2	c	017	-	-						M(H ₂)		
	55.1	55.2	3	b	891	a	976								
	56.1	56.2	4	c	891	u	903								
	55.3	55.4	5	-	-	u	250								
	48.1	48.2	6	b	900	a	972								
	.3	.4	7	c	900	b	901								
	48.5	48.6	8	a	971	c	901								
	49.1	49.2	9	l99017	b	037						xx	M(H ₂)		M(b ₂)
	.3	.4	900	s	036	c	500						M(b ₂ -1)		
	.5	.6	1	d-	500	c	047								M(Δ ₂)
	49.7	49.8	2	-	-	u	882								
	56.3	56.4	3	b	892	a	972								
	.5	.6	4	c	892	u	891								
P1.12	57.1	57.2	5	61	000	11	000								
P1.17	58.1	59.1	6	31	010	l	008								
	59.2	.3	7	b	010	q	909								
	.4	59.5	8	-	-	u	906								
	60.1	60.2	9	41	510	40	510								
	.3	.4	910	-	-	u	922								
			1	RwhatΔ	probΔΔ										
			2	Rwrong	ΔprobΔ										
			3	-	q8	919									
			4	001001	00	001									
	15.12	15.13	5	x	000	s	971								
	.14	.15	6	c	502	s	502								
	.16	.17	7	08	000	u	265								
P1.15	2.2	2.3	8	30	010	u	865								
P1.18	3A.1	3A.2	9	11	000	u	906								

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
P1	0.1	1.1	920	31	250	50	977								
	1.2	2.1	1	10	010	u	918								
pl.13	3.1	3.2	2	b	971	s	012								
	.3	.4	3	09	000	h	501								
	.5	.6	4	a	251	c	251								
	.7	.8	5	b	255	a	501								
	3.9	3.10	6	c	255	u	860								
	16.10	16.11	7	k	000	p	971								
	.12	.13	8	x	000	h	502								
	.14	.15	9	a	294	c	294								
	.16	.17	930	b	295	a	502								
	16.18	16.19	1	c	295	u	978								
	16.24	16.25	2	c	387	b	502								
	.26	.27	3	6	000	a	390								
	.28	.29	4	c	390	g	502								
	.30	.31	5	b	296	a	502								
	.32	.33	6	c	296	b	297								
	16.34	16.35	7	a	502	c	297								
	17.1	18.1	8	31	430	b	011								
	18.2	18.3	9	a	012	k	000								
	.4	.5	940	p	013	x	000								
	.6	.7	1	k	000	b	974								
	18.8	18.9	2	-	-	t	960								
	19.1	19.2	3	a	975	t	961								
	20.1	20.2	4	a	975	t	956								
	.3	.4	5	r	959	u	958								
	21.1	22.1	6	31	190	b	277								
	22.2	22.3	7	c	503	v	278								
	22.4	23.1	8	w	504	30	860								
	24.1	24.2	9	y	860	z	250								
	.3	.4	950	y	870	z	260								
	.5	.6	1	y	880	z	270								
	25.1	25.2	2	b	503	c	277								
	.3	.4	3	v	504	w	278								
P1.9	26.1	26.2	4	-	-	-	-								
	26.3	26.4	5	-	-	u	300								
P1.7	27.1	27.2	6	r	959	t	958								
	.3	.4	7	30	190	u	954								
P1.8	28.1	28.2	8	31	070	31	130								
	.3	.4	9	-	-	-	-								
P1.5	29.1	29.2	960	30	070	u	954								
p1.6	30.1	30.2	1	31	070	30	130								
	.3	.4	2	-	-	u	954								
	7.3	7.4	3	b	965	a-	971								
	7.5	7.6	4	a-	972	c	965								
	8.1	8.2	5	l	047	b	046								
	8.3	8.4	6	-1	000	c	500								
	9.1	9.2	7	d-	500	u	251								
	13.3	13.4	8	b	256	a	972								
	13.5	13.6	9	c	256	u	255								
			970	099999	999999										
			1	-	-	00	001								
			2	00	001	-	-								
			3	-	-	re	Δ006								
			4	-	-	00	054								
			5	-	-	00	060								
			6	001001	-	-	-								
			7	BRtype	ΔtimeR										
	16.20	16.21	8	b	502	6	000								
	16.22	16.23	979	a	387	u	932								

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
P1.0	4.1	4.2	250	b	972	04	000								
P1.1	5.1	5.2	1	c	99037	-						xx	$M(\Delta_{\ell,1})$		
	6.1	6.2	2	b	251	a	976								
	7.1	7.2	3	c	251	u	963								
P1.2	10.1	10.2	4	33	310	-									
P1.3	11.1	11.2	5	l	99047	m	047					xx	$M(\Delta_{\ell})$		$M(\Delta_{\ell})$
	11.3	12.1	6	c	047	b	255						$M(\Delta_{\ell})$		
	12.2	12.3	7	a	971	a	976								
	13.1	13.2	8	c	255	u	968								
P1.4	14.1	15.1	9	33	370	b	501								
	15.2	.3	260	a	286	c	286								
	.4	.5	1	s	014	09	000								
	.6		2	a	284	c	284								
	.8		3	l	014	p	012								
	15.10	15.11	4	x	000	u	915								
	15.18	15.19	5	a	296	c	296								
	.20	.21	6	b	015	s	971								
	.22	.23	7	h	014	k	000								
	.24	.25	8	p	012	x	000								
	.26	.27	9	x	000	h	502								
	.28	.29	270	a	285	c	285								
	.30	15.31	1	b	286	a	502								
	15.32	16.1	2	c	286	s	016								
	16.2	.3	3	s	012	09	000								
	.4	.5	4	a	501	a	294								
	.6	.7	5	c	294	b	012								
	16.8	16.9	6	a	012	u	927								
			7	Rxsec	Δ calc	Δ			P0.1						
			8	start	ng	'			P0.2						
			9	ending	'				P0.3						
			280	Rxsec	Δ err	Δ			P4.1						
			1	z	91650	z	740		D1.1						
			2	a-	630	h	630		D1.2						
			3	c	631	b	366		D1.3						
			4	a	97630	a	631		D1.4			-G			
			5	k	000	s	630		D1.5						+2(3+G)L
			6	b	99500	s	631		D1.6						+2(3+G)L
			7	l	499	m	077		D3.1			-L + 1			
			8	-	-	-	-		D3.2						
			9	-	-	-	-		D3.3						
			290	-	-	-	-		D4.1						
			1	-	-	-	-		D4.2						
			2	-	-	-	-		D4.3						
			3	y	4 510	z	500		D5.1						
			4	l	99473	d	630		D5.2			-4L + 1			+2L
			5	-	-	c	630		D5.3						+2L
			6	0	99900	d	630		D5.4			-2GL + 1			+6L
			7	-	-	c	630		D6.1						+6L
			8	b	630	l	631		D7.1						
			9	w	4 570	-	-								
X0	0.1	0.2	300	50	277	50	278								
	1.1	1.2	1	12	000	32	510								
	2.1	2.2	2	c	495	c	495								
X0.1	3.1	3.2	3	b	495	l	010								
	3.3	3.4	4	-	-	q	324								
X1	10.1	10.2	5	a	467	c	495								
	11.1	11.2	6	b	384	a	467								
	11.3	12.1	7	c	384	b	281								
	12.2	13.1	8	c	313	c	630								
	13.2	14.1	309	c	631	v	630								

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
	14.2	14.3	310	w	632	w	634								
	14.4	14.5	1	w	636	w	638								
	15.1	15.2	2	y	630	z	640								
x _{1.1}	16.1	16.2	3	-	-	-	-								
	17.1	17.2	4	b	313	a	478								
x _{1.3}	18.1	18.2	5	c	313	u	313								
x _{1.2}	19.1	19.2	6	v	282	w	288								
	1A.1	1A.2	7	v	284	w	290								
	.3	.4	8	b	286	c	292								
x _{0.2}	4.1	4.2	9	a	467	h	494								
	5.1	5.2	320	l	015	t	330								
	.3	.4	1	r	449	u	334								
			2	r	449	u	339								
	9.1	9.2	3	b	494	u	319								
x _{0.3}	6.1	6.2	4	55	570	55	570								
	.3	.4	5	62	000	65	000								
	7.1	7.2	6	50	277	50	279								
P ₂	8.1	8.2	7	33	920	31	920								
	8.3	8.4	8	50	979	b	016								
	8.5	8.6	9	-6	000	u	479								
x _{0.4}			330	r	449	u	421								
			1	r	449	u	450								
			2	r	449	u	377								
			3	-	-	u	303								
x ₂	20.1	20.2	4	y5	520	z	500								
	21.1	21.2	5	b	334	a	476								
	22.1	22.2	6	c	334	u	449								
	23.1	23.2	7	b	293	32	510								
	.3	.4	8	-	-	u	336								
x ₃	30.1	30.2	9	b	287	c	351								
x _{3.1}	31.1	31.2	340	a	467	c	496								
	.3	.4	1	b	467	c	497								
	32.1	32.2	2	b	288	h	352								
	.3	.4	3	h	367	a	469								
	.5	.6	4	c	354	b	289								
	32.7	33.1	5	c	368	b	351								
	33.2	.3	6	a	468	h	351								
	.4	.5	7	h	366	a-	467								
	33.6	33.7	8	c	353	-	-								
x _{3.2}	34.1	34.2	9	l	011	b	497								
	.3	.4	350	-	-	t	366								
	35.1	35.2	1	-	-	-	-								
	.3	.4	2	-	-	-	-								
	.5	.6	3	-	-	-	-								
	35.7	35.8	4	-	-	-	-								
	36.1	36.2	5	b	353	a	467								
x _{3.4}	37.1	37.2	6	h	351	h	366								
	.3	.4	7	a	467	c	353								
	38.1	38.2	8	b	354	a	469								
	.3	.4	9	h	352	h	367								
	.5	.6	360	a	469	c	354								
	.7	.8	1	b	368	a	480								
	38.9	39.1	2	c	368	l	012								
	39.2	39.3	3	b	497	q	370								
	3A.1	3A.2	4	a	467	c	497								
	.3	.4	5	-	-	u	349								
x _{3.3}	3B.1	3B.2	6	-	-	-	-								
	.3	.4	7	-	-	-	-								
	3B.5	3C.1	8	-	-	-	-								
	3C.2	3C.3	369	a	467	u	356								

Block #56

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
x3.5	3D.1	3D.2	370	b	013	b	496								
	.3	.4	1	-		q	373								
	.5	.6	2	-		u	340								
x3.6	3E.1	3E.2	3	b	288	a	016								
	.3	.4	4	c	288	b	016								
	.5	.6	5	j	6 000	a	289								
	3E.7	3E.8	6	c	289	u	449								
x6	60.1	60.2	7	b	470	c	499								
x6.1	61.1	61.2	8	b	467	c	497								
x6.2	62.1	62.2	9	c	498	-									
	.3	.4	380	b	298	c	394								
	63.1	63.2	1	b	017	b	027						M(H _l)		M(s _l)
	.3	.4	2	c	500	x	000								
	.5	.6	3	r	420	u	443								
	64.1	64.2	4	b	037	b	056						$M(\frac{\Delta t-1}{\Delta t})$		M(B _p)
	.3	.4	5	c	500	x	000								
	.5	.6	6	r	420	u	443								
	65.1	65.2	7	b	630	m	047						$M(30^F_{TR})$		$M(\Delta \frac{1}{2})$
	.3	.4	8	c	500	b	473								
	.5	.6	9	d	- 500	c	500								
	65.7	.8	390	b	631	m	047						$M(30^P_{TR})$		$M(\Delta \frac{1}{2})$
	.9	.10	1	c	501	b	473								
	.11	.12	2	d	- 501	-									
	.13	.14	3	r	420	u	443								
x6.4	66.1	66.2	4	-		-									
	.3	.4	5	c	500	x	000								
	.5	.6	6	r	420	u	443								
x6.3	67.1	67.2	7	b	499	b	498								
	.3	.4	8	a	467	q	402								
	68.1	68.2	9	-		c	498								
	.3	.4	400	b	394	a	016								
	.5	.6	1	c	394	u	394								
x6.5	69.1	69.2	2	b	012	b	497								
	.3	.4	3	a	467	t	413								
	6A.1	6A.2	4	c	497	b	298								
	.3	.4	5	a	471	c	298								
	.5	.6	6	b	381	a	469								
	.7	.8	7	c	381	b	384								
	.9	.10	8	a	472	s	469								
	.11	.12	9	c	384	b	387								
	.13	.14	410	a	472	c	387								
	.15	.16	1	b	390	a	472								
	6A.17	6A.18	2	c	390	u	379								
x6.6	6B.1	6B.2	3	k	000	-									
	.3	.4	4	-		a	471								
	.5	.6	5	c	471	s	469								
	.7	.8	6	c	469	s	472								
	6B.9	6C.1	7	c	472	b	499								
	6C.2	6C.3	8	b	014	q	449								
	6D.1	6D.2	9	c	499	u	378								
			420	-		-									
x4	40.1	40.2	1	v	290	w	423								
	.3	.4	2	b	292	c	428								
	41.1	41.2	3	-		-									
x4.1	42.1	42.2	4	-		-									
	42.3	43.1	5	c	500	b	424								
	43.2	43.3	6	a	016	a	474								
	44.1	44.2	7	c	424	u	434								
	45.1	45.2	8	-		-									
	.3	.4	429	h	500	j	1 000								

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
	45.5	45.6	430	.3	000	q	435								
	46.1	46.2	1	50	280	50	500								
	.3	.4	2	50	495	90	000								
	.5	.6	3	90	000	u	433								
	44.3	44.4	4	b	500	u	424								
x4.2	47.1	47.2	5	b	292	a	470								
	.3	.4	6	a	474	-									
	48.1	48.2	7	c	292	u	439								
	49.1	49.2	8	-		u	449								
	48.3	48.4	9	b	291	a	470								
	.5	.6	440	c	291	b	290								
	.7	.8	1	a	471	c	290								
	48.9	48.10	2	-		u	421								
X7	70.1	70.2	3	c	501	v	500								
	71.1	71.2	4	w4	570	-									
	72.1	72.2	5	b	444	a	477								
	73.1	73.2	6	c	444	u	420								
	74.1	74.2	7	b	299	55	570								
	74.3	74.4	8	-		u	446								
			9	-		-									
X5	50.1	50.2	450	v	294	w	452								
	.3	.4	1	v	296	w	482								
x5.1	51.1	51.2	2	-		-									
	.3	.4	3	-		-									
	52.1	52.2	4	b	452	a	474								
	53.1	53.2	5	a	467	u	461								
	52.3	52.4	6	-		u	481								
			7	-		-									
	55.1	55.2	8	b	482	a	475								
	56.1	56.2	9	a	467	u	464								
	55.3	55.4	460	-		u	449								
	53.3	53.4	1	c	452	b	453								
	.5	.6	2	a	467	c	453								
	53.7	53.8	3	-		u	452								
	56.3	56.4	4	c	482	b	483								
	.5	.6	5	a	467	c	483								
	56.7	56.8	6	-		u	481								
			7	-		00	001								
			8	00	001	-									
			9	00	001	00	001								
			470	-		00	002								
			1	00	002	00	002								
			2	00	002	00	001								
			3	01	000	-									
			4	001000	-										
			5	00	100	-									
			6	01	010	-									
			7	002002	-										
			8	001010	00	010									
	8.7	8.8	9	c	016	u	920								
			480	00	002	-									
x5.2		54.0	1	-		l	475								
	54.1	54.2	2	-		-									
	.3	.4	3	-		-									
	54.5	54.6	4	-		u	458								
			5	-		-									
			6	-		-									
			7	-		-									
			8	-		-									
			9	-		-									

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
P ₂₀₁	00.1	01.1	920	33	770	33	860								
	01.2	02.1	1	50	978	l	920								
	02.2	02.3	2	r	859	q2	856								
P ₂	11.1	11.2	3	b	933	a-	012								
	11.3	12.1	4	c	933	c	998								
	12.2	12.3	5	c	994	c	829								
P ₂₁₁	13.1	13.2	6	b	998	a-	958								
	13.3	13.4	7	h	998	-									
	13.5	13.6	8	l	012	t	960								
	14.1	14.2	9	b	830	s-	829								
	14.3	15.1	930	c	993	l	786								
	15.2	.3	1	m	993	k	000								
	.4	.5	2	-		m	770								
	.6	.7	3	c	990	l	829								
	.8	.9	4	d-	990	h	980								
	16.1	16.2	5	a-	994	c	994								
	17.1	17.2	6	b	929	a-	959								
	.3	.4	7	c	929	b	932								
	.5	.6	8	a-	958	c	932								
	.7	.8	9	b	934	a-	958								
			940	c	934	u	926								
			1	-		-									
			2	-		-									
			3	-		-									
			4	-		-									
			5	-		-									
			6	-		-									
			7	-		-									
			8	-		-									
			9	-		-									
			950	-		-									
			1	-		-									
			2	-		-									
			3	-		-									
			4	-		-									
			5	-		-									
			6	-		-									
			7	-		-									
			8	-		00	001								
			9	00	001	00	001								
P ₂	20.1	20.2	960	33	070	50	977								
	21.1	21.2	1	r	859	q2	856								
	22.1	22.2	2	64	000	b	017								
	.3	.4	3	c	880	b	018								
	.5		4	c	881	b	019								
	.7		5	c	882	b	020								
	.9		6	c	883	b	021								
	.11		7	c	884	b	022								
	.13		8	c	885	b	023								
	.15		9	c	886	b	024								
	.17		970	c	887	b	025								
	.19		1	c	888	b	026								
	.21		2	c	889	v	782								
	.23		3	w	896	-									
	.25		4	s-	781	c	893								
	22.27	22.28	5	b	008	c	890								
	23.1	23.2	6	33	920	u	920								
			7	Rpre	h	mΔ2-2'									
			8	Rpre	h	mΔ2-1'									
			9	Rpre	h	mΔ2-0'									

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
^s 20	20.1	20.2	920	50	935	c	990								
	.3	.4	1	v	936	w	928								
	.5	.6	2	r	934	u	928								
	21.1	21.2	3	v	928	w	928								
	.3	.4	4	r	934	u	928								
	22.1	22.2	5	45	920	b	008								
	.3	.4	6	a-	061	c	008								
	.5	.6	7	b	990	u	012								
^s 21	23.1	23.2	8	-	-	-	-						C23.1	C23.2	
	.3	.4	9	-	-	-	-						C23.3	C23.4	
	24.1	24.2	930	b	929	s-	061								
	24.3	25.1	1	c	929	b	928								
	25.2	.3	2	a	061	a	065								
	.4	.5	3	c	928	u	928								
	26.1	26.2	4	-	-	-	-								
			5	ΔV_{res}	cale''				RESCALE					s21	EXIT
			6	099400	b	992			D ₂₀						
			7	-1 000	c	992			D ₂₁						
			8	099900	b	000			D ₂₂						M(V _{1,1})
			9	-1 000	c	000			D ₂₃						M(V _{1,1})
			880	-	-	-	-		H ₁						
			1	-	-	-	-		H ₂						
			2	-	-	-	-		:						
			3	-	-	-	-		.						
			4	-	-	-	-		H _L						
			5	-	-	-	-								
			6	-	-	-	-								
			7	-	-	-	-								
			8	-	-	-	-								
			9	-	-	-	-								
			890	-	-	-	-		PROB. #						
			1	b	000	:1	000		D ₁				M(IS ₁)		
			2	b	000	:1	000		D ₂				M(S _{L,H})		
			3	-	-	-	-		c m-1						
			4	-	-	-	-		u m-1						
			5	01 000	-	-	-		f m-1						
			6	-	-	-	-		f						
			7	-	-	-	-		e						
			8	b99zzz	a-	000			D ₁₀₀				B9X	X = 10-G	M(Y ₁)
			9	-0 000	h	991			D ₁₀₁						
			900	l 895	m	000			D ₁₁₀						M(IS ₁)-1
			1	b	000	u	zty		D ₁₁₁				BXX	M(Y ₁)-1	XX = 99-L
			2	b	000	-2	000		D ₁₃₀				BXX	M(Q _{1,0})-1	XX = 99-N-L
			3	c	000	c	000		D ₁₃₁					M(S _{f₁})-1	M(Q _{1,0})-1
			4	b	000	-2	000		D ₁₃₂				BXX	M(Y ₁)-1	XX = 99-L
			5	c	000	c	000		D ₁₃₃					M(IS _{f₁})-1	M(Y ₁)-1
			6	Rsourc	e'R'				P ₁						
			7	Rconve	rged'R				P ₂						
			8	Rcriti	cal'R'				P ₃						
^s 10	100.1	100.2	9	b	898	c	911								
	.3	.4	910	c	999	50	906								
	101.1	101.2	1	-	-	-	-								
	101.3	102.1	2	c	999	b	911								
	102.2	.3	3	a	069	c	911								
	.4	103.1	4	-	-	-	-								
^s 100	104.1	104.2	5	43	920	s	008								
	.3	.4	6	09	000	01	000								
	.5	.6	7	a	899	h	919								
	.7	105.1	8	c	924	b	063								
	106.1	106.2	9	-	-	-	-								

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
			070	-		10 000			10^{-6}						
			1	00-999		00-999			$\cdot 1$						
			2	a97zz+	c	980			D_{30}^s						
			3	v4 920	b	ψwz			D_{31}^s						
			4	a99zz+	c	980			D_{40}^s			A9X	X = 6-G		
			5	w4 860	b	ψwz			D_{110}^s						
			6	-	-	-			X						
			7	00 002	-	-			$2 \cdot 10^{-5}$						
			8	g 000	c	000			C ₅			$M(u_{1,1})$		$M(v_{1,1})$	
			9	m 000	a	000			C ₆			$M(Sf_{1,0})$		$M(SIN_{1,0})$	-1
			080	a- 000	c	000			D_{50}			$1+M_{(H)}^2$		$1+M_{(L)}^2$	
			1	a- 000	c	000			D_{51}			$1+M(Q_{L,H})$		$1+M(Q_{L,H})$	
			2	a- 000	c	000			D_{60}			$1+M(P_L^2)$		$1+M(P_L^2)$	
			3	a- 000	c	000			D_{61}			$1+M(Y_L)$		$1+M(Y_L)$	
			4	-	-	-			$g(L)$			$g_3(L)$			
			5	-	-	-			w			$f_6(L,H)$			
			6	m99984	c	zz+			D_{54}			M9X	X = 10-G		
			7	l 992	m	000			D_{10}						$1+M(u_{L,H})$
			8	d 990	a	000			D_{11}						$1+M(v_{L,H})$
			9	m 000	a-	000			D_{70}			$M(ISf_i)$		$M(ISIN_i)$	
			090	-	-	-						D_{52}			
			1	-	-	-						D_{53}			
			2	-	-	-						D_{62}			
			3	-	-	-						D_{63}			
			4	-	-	-						$g(\ell)$			
			5	-	-	-						$f_6(\ell, h)$			
			6	-	-	-						$H\ell_{L,H}$			
			7	-	-	-						$s\ell_{L,H}$			
			8	-	-	-						$\Delta\ell_{-1}/\Delta\ell$			
			9	-	-	-						β_j			
			100	-	-	-						B			
			1	-	-	-						N [*]			
			2	-	-	-						L [*]			
			3	-	-	-						P [*]			
			4	-	-	-						c ^m			
154	57.1	57.2	5	b 991	-	-									
	.3	.4	6	-	-	-						C57.3		C57.4	
	58.1	58.2	7	b 990	;6 000										
	.3	.4	8	a- 990	a- 106										
	.5	.6	9	c 106	u 117										
15	50.1	50.2	110	b 090	a- 071										
	.3	.4	1	h 090	c 106										
	.5	.6	2	b 091	a- 071										
	.7	.8	3	h 091	c 125										
	.9	.10	4	l 992	b 101										
151	51.1	51.2	5	a- 102	c 990										
	.3	.4	6	b 086	c 117										
152	52.1	52.2	7	-	-							C52.1		C52.2	
	53.1	53.2	8	b 117	a 069										
	54.1	54.2	9	c 117	u 105										
153	55.1	55.2	120	b 106	;6 000										
	.3	56.1	1	c 122	b 991										
	56.2	56.3	2	-	-							C56.2		C56.3	
161	61.1	61.2	3	m 983	c 990										
	.3	.4	4	l 064	d- 990										
	62.1	62.2	5	-	-							C62.1		C62.2	
	63.1	63.2	6	-	-	u 020									
11	10.1	10.2	7	b 130	s- 061			K ₂₀							
	.3	.4	8	c 130	b 132										
	10.5	10.6	9	s- 061	c 132										

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
P221	24.1	24.2	920	b	014	s-	978								
	.3	.4	1	h	997	k	000								
	.5	.6	2	b	010	c	103								
	.7	.8	3	b	012	c	102								
	.9	.10	4	b	784	c	101								
	.11	.12	5	p	102	j	995								
	.13	.14	6	p	101	j	996								
	.15	24.16	7	b	785	a-	101								
	24.17	25.1	8	h	990	a-	878								
	25.2	25.3	9	c	878	b	879								
	.4	.5	930	s-	990	c	879								
	.6	.7	1	b	990	a-	101								
	.8	25.9	2	s-	979	h	990								
	26.1	26.2	3	06	000	a-	903								
	.3	.4	4	c	903	b	990								
	.5	.6	5	a-	101	a-	102								
	.7	.8	6	h	990	061000									
	.9	.10	7	a-	892	c	892								
	.11	.12	8	b	990	a-	996								
	26.13	.14	9	a-	995	a-	995								
	.15	.16	940	h	990	a-	900								
	.17	.18	1	c	900	b	990								
	.19	.20	2	06	000	a-	905								
	.21	.22	3	c	905	b	990								
	.23	.24	4	a-	102	h	990								
	.25	.26	5	06	000	a-	891								
	.27	.28	6	c	891	b	990								
	.29	.30	7	06	000	a-	902								
	.31	.32	8	c	902	b	990								
	26.33	26.34	9	a-	903	c	903								
P222	27.1	27.2	950	b	990	a-	101								
	.3	.4	1	a-	102	h	990								
	.5	.6	2	06	000	a-	901								
	.7	.8	3	c	901	b	990								
	.9	.10	4	a-	905	c	905								
	.11	.12	5	b	990	06	000								
	.13	.14	6	a-	904	c	904								
	.15	.16	7	b	990	a-	979								
	27.17	27.18	8	a-	898	c-	898								
	28.1	28.2	9	b	979	s-	102								
	.3	.4	960	09	000	a-	898								
	.5	.6	1	c	898	s-	102								
	.7	.8	2	a-	977	u	974								
	28.13	28.14	3	c	901	b	904								
	.15	.16	4	a-	991	c	904								
	.17	.18	5	s-	101	09	000								
	.19	.20	6	a-	991	-									
	.21	.22	7	a-	902	c	902								
	.23	.24	8	s-	990	a-	101								
	.25	.26	9	s-	102	a-	785								
	.27	.28	970	08	000	a-	878								
	28.29	29.1	1	c	878	h	978								
	29.2	.3	2	r	859	q2	856								
	2A.1	2A.2	3	33	920	u	920								
	28.9	28.10	4	09	000	h	991								
	28.11	28.12	5	a-	901	u	963								
			6	-	-										
			7	-	00	099									
			8	-	00	003									
			9	-	00	001									

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
P ₂ ³	30.1	30.2	920	b	922	k	000								
	.3	.4	1	r	859	q2	856								
	31.1	31.2	2	54	860	50	940								
	32.1	33.1	3	33	010	b	930								
P ₂₃₁	33.2	.3	4	a-	102	c	930								
	.4	.5	5	b	932	a-	102								
	.6	34.1	6	c	932	b	780								
	34.2	.3	7	c	100	b	787								
	.4	.5	8	c	085	u	941								
	35.3	35.4	9	m	786	-	-								
	.5	.6	930	c	990	l	829								M(b _L)
	.7	.8	1	d-	990	c	786								
	36.1	36.2	2	-	-	b	879								M(H _L)
	.3	.4	3	09	000	k	000								
	37.1	37.2	4	d-	993	k	000								
	38.1	38.2	5	m	786	c	084								
	39.1	39.2	6	r	859	q2	856								
	3A.1	3A.2	7	b	781	c	104								
	3B.1	3B.2	8	33	920	u	920								
			9	00	050	-	-								
P ₂₃₂			940	Rpre	li	m	Δ2-3'								
	34.6	34.7	1	b	788	c	076								
	35.1	35.2	2	l	939	u	929								
			3	-	-	-	-								
			4	-	-	-	-								
			5	-	-	-	-								
			6	-	-	-	-								
			7	-	-	-	-								
			8	-	-	-	-								
			9	-	-	-	-								
			950	-	-	-	-								
			1	-	-	-	-								
			2	-	-	-	-								
			3	-	-	-	-								
			4	-	-	-	-								
			5	-	-	-	-								
			6	-	-	-	-								
			7	-	-	-	-								
			8	-	-	-	-								
			9	-	-	-	-								
			960	-	-	-	-								
			1	-	-	-	-								
			2	-	-	-	-								
			3	-	-	-	-								
			4	-	-	-	-								
			5	-	-	-	-								
			6	-	-	-	-								
			7	-	-	-	-								
			8	-	-	-	-								
			9	-	-	-	-								
			970	-	-	-	-								
			1	-	-	-	-								
			2	-	-	-	-								
			3	-	-	-	-								
			4	-	-	-	-								
			5	-	-	-	-								
			6	-	-	-	-								
			7	-	-	-	-								
			8	-	-	-	-								
			9	-	-	-	-								

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
^S 2	27.1	27.2	010	45	920	34	920								
	28.1	28.2	1	44	920	u	920								
^S 22	29.1	29.2	2	35	920	35	920								
	.3	.4	3	-		-						S ₂ EXIT			
^S 3	30.1	30.2	4	b	072	c	038								
	.3	.4	5	r	045	u	032								
	31.1	31.2	6	l	980	m	981								
	.3	.4	7	a-	070	a-	070								
	.5	.6	8	l	064	c	990								
	31.7	31.8	9	d-	990	c	981								
	32.1	32.2	020	b	032	k	000								
	.3	.4	1	r	859	q1	856								
	.5	.6	2	-		-									
^S 31	33.1	33.2	3	v4	920	b	ψwz					C _{33.1} C _{33.2}			
	.3	.4	4	a	023	a	069								
	34.1	34.2	5	-		u	027								
	35.1	35.2	6	b	073	35	920								
	36.1	36.2	7	c	023	w	990								
	37.1	37.2	8	b	990	s-	991								
	.3	.4	9	c	990	m	990								
	.5	.6	030	-		-									
	40.1	40.2	1	b	074	c	038								
	41.1	41.2	2	r	030	u	023								
	42.1	42.2	3	w	096	l	104								
	43.1	43.2	4	r	030	u	023								
	44.1	44.2	5	p	097	01	000								
	.3	.4	6	k	000	w	098								
	45.1	45.2	7	r	030	u	023								
	46.1	46.2	8	-		-						C _{46.1} C _{46.2}			
	47.1	47.2	9	b	038	a	069								
	48.1	48.2	040	c	038	u	037								
	49.1	49.2	1	b	100	-4	000								
	.3	.4	2	c	990	l	982								
	.5	.6	3	d-	990	a-	981								
	.7	.8	4	c	981	-									
	49.9	49.10	5	-		-						S ₄ - S ₄₁ EXIT			
^I 31	30.1	30.2	6	m	094	c	990								
	31.1	31.2	7	l	063	d	990								
	32.1	32.2	8	h	997	u	022								
^I 32	33.1	33.2	9	r	013	u	010								
^I 3	34.1	34.2	050	l	992	u	046								
^I 6	60.1	60.2	1	b	092	a-	071								
	.3		2	h	092	c	106								
	.5		3	b	093	a-	071								
	.7		4	h	093	c	125								
	60.9	60.10	5	l	996	u	115								
^I 41	40.1	40.2	6	a	997	a	996								
	41.1	41.2	7	h	996	u	022								
^I 42	42.1	42.2	8	r	013	u	010								
^I 4	43.1	43.2	9	b	997	u	056								
			060	00	001	00	001	← 1° →							
			1	-		00	001	← 1° →							
			2	00	001	-		← 1° →							
			3	01	000	-		← 10 ⁻¹ →							
			4	001	000	-		← 10 ⁻² →							
			5	00	100	-		← 10 ⁻³ →							
			6	02	000	-		← .2 →							
			7	05	000	-		← .5 →							
			8	002	000	-		← .02 →							
			9	001	001	00	001	← 10 ⁻² + 10 ⁻⁵ + 10 ⁻¹¹ →							

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
P ₂	0.1	1.1	920	50	976	b	979								
	1.2	1.3	1	s-	997	h	991								
	1.4	2.1	2	09	000	a-	074								
	2.2	3.1	3	c	074	b	061								
	3.2	3.3	4	s-	997	09	000								
	4.1	4.2	5	a-	086	c	086								
	5.1	5.2	6	b	785	06	000								
	.3	.4	7	a-	078	c	078								
	.5	.6	8	b	785	a-	784								
	.7	6.1	9	h	990	a-	078								
	6.2	6.3	930	c	078	b	990								
	.4	.5	1	a-	087	c	087								
	7.1	7.2	2	b	990	a-	784								
	.3	.4	3	s-	061	h	990								
	8.1	8.2	4	06	000	a-	079								
	.3	.4	5	c	079	b	990								
	.5	.6	6	a-	061	a-	088								
	.7	9.1	7	c	088	b	990								
	9.2	.3	8	a-	102	a-	784								
	.4	10.1	9	h	990	a-	079								
	10.2	11.1	940	c	079	b	990								
	11.2	.3	1	a-	784	a-	102								
	.4	.5	2	a-	061	h	990								
	.6	.7	3	a-	080	c	080								
	12.1	12.2	4	b	990	a-	784								
	.3	.4	5	a-	102	h	990								
	13.1	13.2	6	06	000	a-	080								
	.3	14.0	7	c	080	l	991								
	14.1	.2	8	p	784	u	973								
	14.9	14.10	9	a-	995	a-	102								
	.11	.12	950	a-	102	h	990								
	15.1	15.2	1	a-	082	c	082								
	16.1	16.2	2	b	990	s-	061								
	.3	.4	3	a-	089	c	089								
	17.1	17.2	4	b	990	a-	102								
	18.1	18.2	5	06	000	u	971								
P ₂₄₀	19.1	19.2	6	b	990	a-	995								
	19.3	20.1	7	h	990	s-	061								
	.2	.3	8	06	000	a-	089								
	20.4	21.1	9	c	089	b	990								
	21.2	21.3	960	a-	784	a-	102								
	.4	22.1	1	h	990	a-	081								
	22.2	22.3	2	c	081	b	990								
	.4	.5	3	06	000	a-	081								
	22.6	23.1	4	c	081	b	990								
	23.2	.3	5	a-	102	h	990								
	.4	.5	6	a-	083	c	083								
	.6	.7	7	b	990	06	000								
	.8	.9	8	a-	083	c	083								
	23.10	23.11	9	l	976	q7	856								
	24.1	24.2	970	33	920	u	920								
	18.3	18.4	1	a-	082	c	082								
	.5	.6	2	-	-	u	956								
	14.3	14.4	3	x	000	s-	785								
	.5	.6	4	c	991	s-	991								
	14.7	14.8	5	-	-	u	949								
			6	Rpre l1	m22-4R			PRELIM	2-4						
			7	-	-										
			8	-	-										
			9	-0 000	00 003					-3*					

CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
P ₂ ⁵	50.1	50.2	920	y	770	z	910								
	.3	.4	1	b	785	c	900								
	51.1	51.2	2	y	970	z	310								
	.3	.4	3	z	320	z	330								
	.5	.6	4	z	340	z	350								
	.7	.8	5	z	360	z	370								
	.9	.10	6	z	380	z	390								
	.11	.12	7	z	400	z	410								
	.13	.14	8	z	420	z	430								
	.15	.16	9	z	440	z	450								
	.17	.18	930	z	460	z	470								
	.19	.20	1	z	480	z	490								
	.21	.22	2	z	500	z	510								
	.23	.24	3	z	520	z	530								
	.25	.26	4	z	540	z	550								
	.27	.28	5	z	560	z	570								
	.29	.30	6	z	580	z	590								
	.31	.32	7	z	600	z	610								
	.33	.34	8	z	620	z	630								
	.35	.36	9	z	640	z	650								
	51.37	51.38	940	z	660	z	670								
	.39	.40	1	z	680	z	690								
	.41	.42	2	z	700	z	710								
	.43	.44	3	z	720	z	730								
	.45	.46	4	z	740	z	750								
	.47	.48	5	z	760	z	770								
	.49	.50	6	z	780	z	790								
	.51	.52	7	z	800	z	810								
	51.53	51.54	8	z	820	z	830								
	52.1	52.2	9	b	900	a-	996								
	.3	.4	950	a-	995	a-	995								
	.5	.6	1	a-	101	a-	101								
	.7	.8	2	a-	101	a-	101								
	.9	.10	3	a-	102	a-	102								
	.11	.12	4	a-	102	a-	102								
	52.13	52.14	5	h	990	u	960								
P ₂₅₀	53.1	53.2	6	k	000	c	840								M _{5g(x)}
	54.1	54.2	7	b	956	a-	965								
	.3	55.1	8	c	956	b	990								
	55.2	.3	9	s-	965	h	990								
	56.1	56.2	960	l	967	t	956								
	57.1	57.2	1	33	130	64	000								
	58.1	58.2	2	b	964	k	000								
	.3	.4	3	r	859	q2	856								
	59.1	59.2	4	33	920	u	920								
			5	-	-	00	001								
			6	00	001	-	-								
			7	-	-	00	840								
			8	-	-	-	-								
			9	-	-	-	-								
			970	-	-	-	-								
			1	-	-	-	-								
			2	-	-	-	-								
			3	-	-	-	-								
			4	-	-	-	-								
			5	-	-	-	-								
			6	-	-	-	-								
			7	-	-	-	-								
			8	-	-	-	-								
			9	-	-	-	-								

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
I ₁₁	11.1	11.2	130	-	-	-	-					←	C _{11.1}	C _{11.2}	→
	11.3	12.1	1	c	990	l	064								
	12.2	12.3	2	-	-	-	-					←	C _{12.2}	C _{12.3}	→
	13.1	13.2	3	h	993	u	144								
I ₁₂	14.1	14.2	4	r	013	u	010								
	.3	.4	5	-	-	u	130								
I ₇	70.1	70.2	6	l	981	m	996								
	.3	71.1	7	c	990	l	099								
	71.2	71.3	8	-	-	-	-					←	C _{71.2}	C _{71.3}	→
	71.4	72.1	9	c	991	l	065								
	72.2	.3	140	d-	990	s-	991								
	.4	73.1	1	c	997	b	138								
	73.2	.3	2	a-	071	c	138								
	74.1	74.2	3	b	995	u	144								
I ₁₁	110.1	110.2	4	c	991	b	008								
	.3	111.1	5	c	990	v	990								
	111.2	112.1	6	w4	860	b	ψwz					←	C _{111.2}	C _{112.1}	→
	112.2	112.3	7	a	069	a	146								
I ₁₁₁	113.1	113.2	8	c	146	u	020								
	114.1	114.2	9	b	075	56	860								
	.3	.4	150	-	-	u	148								
I ₉	90.1	90.2	1	s-	096	s-	061								
	.3	.4	2	h	990	06	000								
	.5	.6	3	a	990	a-	283								
	90.7	91.1	4	c	283	l	992								
	91.2	91.3	5	m	981	c	990								
	91.4	.5	6	l	065	d-	990								
	.6	.7	7	s-	994	c	991								
	92.1	92.2	8	b	993	s-	992								
	92.3	92.4	9	k	000	m	068								
	92.5	93.1	160	c	990	l	094								
	93.2	.3	1	m	991	c	991								
	.4	.5	2	m	990	c	990								
	94.1	94.2	3	l	063	d-	991								
	.3	.4	4	c	991	l	980								
	.5	.6	5	d-	990	s-	991								
	.7	95.1	6	c	982	l	102								
	95.2	.3	7	b	998	q	020								
I ₂	20.1	20.2	8	b	982	s-	995								
	.3	.4	9	s-	997	l	000								
	.5	.6	170	.2	000	k	000								
	21.1	21.2	1	b	070	t	020								
	22.1	22.2	2	b	191	a-	998								
	.3	23.1	3	c	990	50	990								
	24.1	24.2	4	b	062	t	020								
	25.1	25.2	5	50	191	u	000								
J ₂	3.1	3.2	6	65	000	56	860								
	4.1	5.1	7	34	920	56	860								
	6.1	6.2	8	33	860	u	909								
I ₀	0.1	0.2	9	y	080	z	090								
	.3	.4	180	b	087	c	130								
	.5	.6	1	b	088	c	132								
	.7	.8	2	b	089	c	138								
	.9	.10	3	-	-	q	298								
	.11	.12	4	r	045	u	031								
	1.1	1.2	5	r	022	u	127								
	.3	.4	6	r	022	u	151								
	.5	.6	7	b	982	c	995								
	.7	.8	8	r	022	u	282								
	1.9	1.10	9	r	022	u	050								

CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
P252	5A.1	5A.2	920	b	900	a-	101								
	.3	.4	1	a-	101	h	990								
	.5	.6	2	a-	935	c	935								
	.7	.8	3	b	990	a-	101								
	.9	.10	4	a-	102	a-	996								
	.11	.12	5	a-	995	a-	995								
	5A.13	5A.14	6	a-	941	c	941								
	5B.1	5B.2	7	33	190	35	250								
P253	5C.1	5C.2	8	b	956	c	998								
P254	5D.1	5D.2	9	c	999	l	994								
	5E.1	5E.2	930	b	910	-2	000						M(S _{fl})		
	.3	.4	1	c	990	d-	990								
	.5	.6	2	c	990	b	980								M(Y _h ⁰)
	.7	.8	3	-2	000	c	991								
	5E.9	5E.10	4	d-	991	c	991								
P255	5F.1	5F.2	5	b	990	c	000		D ₂₅₀						M(S _{fl,h})
	.3	.4	6	b	999	a-	956								
	.5	.6	7	h	999	-									
	5G.1	5G.2	8	l	880	t	941						M(H _l)		
	5H.1	5H.2	9	b	935	a-	956								
	.3	.4	940	c	935	u	935								
P256	5J.1	5J.2	1	b	991	c	000		D ₂₅₁						M(S _{fl})
	5K.1	5K.2	2	b	998	a-	956								
	.3	.4	3	h	998	-									
	5L.1	5L.2	4	l	102	t	952								
	5M.1	5M.2	5	b	930	a-	957								
	.3	.4	6	c	930	b	932								
	.5	.6	7	a-	956	c	932								
	.7	.8	8	b	938	a-	957								
	.9	.10	9	c	938	b	941								
	.11	.12	950	a-	956	c	941								
	.13	.14	1	-		u	958								
P257	5N.1	5N.2	2	b	954	k	000								
	.3	.4	3	r	859	q2	856								
	5P.1	5P.2	4	b	956	u	960								
	5Q.1	5Q.2	5	35	920	u	220								
			6	-		00	001		1*						
			7	00	001	-			*1						
P258	5M.15	5M.16	8	b	935	a-	956								
	5M.17	5M.18	9	c	935	u	929								
	5P.3	5P.4	960	a-	956	c	008								
	.5	.6	1	b	956	u	955								
			2	-		-									
			3	-		-									
			4	-		-									
			5	-		-									
			6	-		-									
			7	-		-									
			8	-		-									
			9	-		-									
			970	-		-									
			1	-		-									
			2	-		-									
			3	-		-									
			4	-		-									
			5	-		-									
			6	-		-									
			7	-		-									
			8	-		-									
			9	-		-									

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
	2.1	2.2	190	c	996	u	192								
	.3	.4	1	Rba	Δc	k	ΔΔΔ01								
	.5	.6	2	r	022	u	110								
	3.1	3.2	3	b	993	u	296								
	3.7	3.8	4	b	096	s-	061								
	3.9	3.10	5	h	096	k	000								
	.11	.12	6	-		q	201								
	.13	.14	7	r	022	u	127								
	.15	.16	8	r	022	u	050								
	.17	.18	9	r	022	u	059								
α ₃	.19	.20	200	-		u	192								
	3.21	3.22	1	r	022	u	050								
	4.1	4.2	2	l	067	m	997								
	.3	.4	3	c	997	-									
	.5	.6	4	r	022	u	059								
	.7	.8	5	r	022	u	144								
	.9	.10	6	r	022	u	136								
	.11	.12	7	r	022	u	110								
	.13	.14	8	r	022	u	051								
	5.1	5.2	9	l	098	m	094								
	.3	.4	210	c	990	l	063								
	.5	.6	1	d-	990	c	094								
	.7	.8	2	c	982	b	998								
	.9	.10	3	s-	061	h	998								
	5.11	5.12	4	k	000	u	183								
	5.21	5.22	5	r	022	u	144								
β ₀	0.1	0.2	6	b	999	a-	061								
	.3	.4	7	l	982	-									
	.5	.6	8	r	859	q6	856								
	1.1	1.2	9	l	103	t	176								
β ₁	2.1	2.2	220	c	999	-									
0 ₀	0.1	0.2	1	b	078	h	258								
	.3	.4	2	b	079	c	283								
α ₁	1.1	1.2	3	a-	061	c	998								
	.3	.4	4	r	022	u	014								
	.5	.6	5	r	022	u	280								
	2.1	3.1	6	c	985	l	061								
	3.2	3.3	7	b	998	q	249								
	4.1	4.2	8	l	098	m	996								
	4.3	4.4	9	h	996	m	980								
	4.5	.6	230	-1	000	h	987								
	.7	.8	1	l	988	d-	987								
	.9	5.1	2	k	000	m	983								
	5.2	.3	3	h	986	m	992								
	.4	.5	4	h	993	m	984								
	.6	.7	5	c	991	r	013								
	6.1	6.2	6	l	064	d-	986								
	.3	7.1	7	c	983	d	993								
	8.1	8.2	8	c	992	u	240								
	.3	.4	9	-		u	010								
	9.1	9.2	240	l	068	d-	991								
	.3	.4	1	c	991	-									
	.5	.6	2	l	067	m	994								
	.7	.8	3	c	993	m	981								
	.9	.10	4	a-	991	c	984								
	.11	.12	5	l	066	r	013								
	10.1	10.2	6	d	996	a	993								
	11.1	11.2	7	c	994	u	264								
	.3	.4	8	-		u	010								
β	23.1	23.2	9	l	085	m	077								

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
	23.3	23.4	250	c	983	m	994								
	.5	24.1	1	k	000	m	980								
	24.2	.3	2	c	992	l	981								
	25.1	25.2	3	d-	983	c	983								
δ	18.1	18.2	4	-		r	013								
	19.1	19.2	5	d	992	f	983								
	30.1	30.2	6	h	992	u	258								
	.3	.4	7	-		u	010								
	20.1	20.2	8	-		-									
γ	12.1	12.2	9	r	022	u	280								
	12.3	.4	260	b	985	a-	061								
	.5	.6	1	h	985	l	096								
	.7	.8	2	-		q	276								
	13.1	13.2	3	b	981	c	984								
	14.1	14.2	4	b	258	a-	060								
	.3	15.1	5	c	258	s-	983								
	15.2	.3	6	-2	000	a-	984								
	.4	.5	7	k	000	d-	070								
	.6	.7	8	c	983	r	013								
	16.1	16.2	9	l	980	m	994								
	.3	.4	270	c	993	l	065								
	.5	.6	1	d	993	a	992								
	17.1	17.2	2	k	000	u	274								
	.3	.4	3	-		u	010								
	.5	.6	4	m	983	c	992								
	.7	.8	5	l	064	u	254								
	21.1	21.2	6	b	994	c	996								
	.3	.4	7	f	980	b	998								
	.5	.6	8	l	102	q	289								
	22.1	22.2	9	g	988	u	223								
01	26.1	26.2	280	b	060	a-	283								
	.3	.4	1	-		c	283								
02	27.1	27.2	2	l	099	r	013								
	28.1	28.2	3	-		-									
	29.1	29.2	4	c	994	u	020								
	.3	.4	5	-		u	010								
	31.1	31.2	6	l	990	d	991								
	.3	.4	7	c	992	u	179								
	.5	.6	8	r	013	u	010								
	.7	.8	9	l	068	n	983								
	.9	.10	290	a-	984	c	990								
	.11	.12	1	m	992	-1	000								
	.13	.14	2	c	991	l	980								
	.15	.16	3	m	994	a-	991								
	.17	.18	4	k	000	m	076								
	31.19	31.20	5	c	991	u	286								
	3.3	3.4	6	f	992	c	992								
	3.5	3.6	7	g	993	u	194								
	5.13	5.14	8	r	022	u	280								
	5.15	5.16	9	s-	094	c	094								
	5.17	5.18	300	r	022	u	154								
	5.19	5.20	1	b	982	u	215								
			2	-		-									
			3	-		-									
			4	-		-									
			5	-		-									
			6	-		-									
			7	-		-									
			8	-		-									
			9	-		-									

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
	107.1	107.2	920	b	999	-2	000								
	.3	.4	1	c	992	l	991								
	.5	.6	2	d-	992	c	998								
S ₁₁	110.1	110.2	3	h	896	l	890								
	111.1	111.2	4	-		-									
	112.1	112.2	5	r	859	q3	856								
	113.1	113.2	6	b	900	c	930								
	.3	.4	7	b	901	c	937								
	.5	.6	8	50	998	u	934								
S ₁₁₁	11B.1	11B.2	9	-1	000	c	993								
	11C.1	11C.2	930	-		-									
	.3	.4	1	s-	993	-									
S ₁₁₀	115.1	115.2	2	l	000	u	979								
	116.1	116.2	3	l	991	t	939								
	118.1	118.2	4	b	930	a-	061								
	.3	119.1	5	c	930	b	937								
	119.2	.3	6	a	069	c	937								
	11A.1	11A.2	7	-		-									
	119.4	119.5	8	50	907	u	962								
S ₁₃	130.1	130.2	9	b	998	h	895								
	131.1	131.2	940	66	000	b	061								
	.3	.4	1	a-	061	c	008								
	132.1	133.1	2	54	860	b	902								
	133.2	.3	3	c	958	b	903								
	.4	.5	4	r	956	u	953								
	134.1	135.1	5	44	920	b	904								
	135.2	.3	6	c	958	b	905								
	.4	.5	7	r	956	u	953								
	136.1	137.1	8	35	860	b	073								
	137.2	.3	9	c	023	b	075								
	.4	138.1	950	c	146	b	061								
	138.2	.3	1	-		-									
	.4	.5	2	35	920	u	220								
S ₁₅	150.1	150.2	3	a	060	c	960								
	151.1	151.2	4	b	958	a	069								
	152.1	152.2	5	c	958	u	957								
	151.3	151.4	6	-		-									
S ₁₅₀	153.1	153.2	7	l	999	-									
	154.1	154.2	8	-		-									
	155.1	155.2	9	c	990	d-	990								
	.3	.4	960	-		-									
	156.1	156.2	1	b	960	u	953								
S ₁₂	120.1	121.1	2	50	104	l	897								
	122.1	122.2	3	b	063	s-	998								
	122.3	122.4	4	h	992	l	000								
	.5	.6	5	.1	000	t	968								
	123.1	123.2	6	33	920	33	920								
	124.1	124.2	7	33	920	u	920								
S ₁₄	140.1	140.2	8	b	104	s-	893								
	.3	.4	9	k	000	m	992								
	.5	.6	970	c	992	b	998								
	.7	.8	1	s-	894	k	000								
	.9	.10	2	d-	992	a-	104								
	140.11	140.12	3	c	992	f	992								
	141.1	141.2	4	l	100	b	104								
	141.3	141.4	5	h	893	q	978								
	142.1	143.1	6	g	104	b	998								
	143.2	.3	7	c	894	u	939								
	144.1	144.2	8	g	100	u	976								
	115.3	115.4	9	.1	000	u	933								

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
			920	33	010	u	010								
			1	R	$\Delta\Delta$ xx	Δ xx	'T		C ₁						
			2	00	001	-			C ₂						
			3	RR	Δ rAS	Δ xx	Δ '		C ₃						
			4	Lc	Δ l Δ '	'	'U'		C ₄						
			5	Δ '	Lf Δ l	U	Δ '		C ₅						
			6	RR	$\Delta\Delta$ '	$\Delta\Delta$	hTA		C ₆						
			7	$\Delta\Delta$	ASs	fT	'		C ₇						
			8	'	$\Delta\Delta\Delta\Delta$	Si	SefR		C ₈						
			9	TL	Δ l Δ l	U	'RR		C ₉						
			930	Δ	Δ hT	$\Delta\Delta\Delta$	S		C ₁₀						
			1	4T	$\Delta\Delta\Delta\Delta$	Δ Li	4TU		C ₁₁						
			2	$\Delta\Delta\Delta\Delta$	S	eoT	$\Delta\Delta$		C ₁₂						
			3	$\Delta\Delta$	SeiR	'	'		C ₁₃						
			4	wrong	Δ	'	date		C ₁₄						
			5	'	'	'	'		C ₁₅						
			6	001	001	-			C ₁₆						
			7	h4	190	-			C ₁₇						
			8	-		00	301		C ₁₈						
			9	Rtape	Δ	7	Δ full		C ₁₉						
			940	111111		11	011		C ₂₀						
			1	-		00	001		C ₂₁						
			2	10	000	-			C ₂₂						
			3	111100		111111			C ₂₃						
			4	111111		10	111		C ₂₄						
			5	077000		-			LC ₁						
			6	P	'P	'	'		C ₂₆						
			7	R	'R	'R	'		C ₂₇						
			8	Rend	$\Delta\Delta$	$\Delta\Delta$	bc $\Delta\Delta$		C ₂₈						
3.3	3.4		9	r	975	u	136								
4.1	4.2		950	b	932	-									
.3	.4		1	r	975	u	136								
5.1	5.2		2	b	933	-									
.3	.4		3	r	975	u	136								
.5	.6		4	-		u	976								
36.1	36.2		5	50	934	-									
36.3	.4		6	90	000	u	856								
.5	.6		7	e	933	u	104								
			8	R	'R	'BR	'R	'R	C ₃₈						
			9	PPPPPP		PPPPPP			C ₃₉						
21.1	21.2		960	e	933	u	092								
			1	-		00	274		C ₄₁						
			2	-		01	000		C ₄₂						
			3	Tpage	Δ	00T	'		PW ₁						
			4	-		u	064		C ₄₄						
			5	'	'	'	'		C ₄₅						
			6	006000		-			C ₄₆						
			7	v4	250	w	990		C ₄₇						
			8	002002		-			C ₄₈						
			9	111111		101111			C ₄₉						
			970	-		-			C ₅₀ = $(\pi/4)^2 \times 10^{-5}$						
			1	-		-			C ₅₁ = N°						
			2	-		-			C ₅₂ = L°						
			3	-		-			C ₅₃ = J°						
			4	-		-			C ₅₄ = c ^m						
			5	-		-							E ₁		
			6	-		-							E ₂		
			7	-		-							E ₃		
			8	-		-							LC		
			9	-		-									

Block #72

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
	1.3	1.4	010	50	908	66	000								
	1.5	1.6	1	y	100	z	970								
	1.7	1.8	2	33	070	36	130								
	2.1	3.1	3	-		l	961								
	3.2	3.3	4	b	009	t	016								
	4.1	4.2	5	50	099	u	020								
	5.1	5.2	6	b	959	c	190								
	6.1	7.1	7	77	190	50	939								
	7.2	8.1	8	c	009	87	000								
	8.2	8.3	9	90	000	u	015								
E5	0.1	0.2	020	b	892	c	038								
	0.3	0.4	1	b	891	c	046								
	0.5	.6	2	b	026	a-	972								
	.7	.8	3	c	026	b	055								
	.9	.10	4	a-	972	c	055								
	1.1	1.2	5	b	972	c	997								
	.3	.4	6	-		b	879								M(H _l)
	.5	2.1	7	c	992	l	007								
	2.2	2.3	8	r	977	q	955								
	3.1	3.2	9	r	976	u	152								
E52	3.3	3.4	030	r	976	u	162								
	.5	.6	1	r	975	u	133								
	4.1	4.2	2	b	997	06	000								
	.3	.4	3	f	943	e	921								
	.5	.6	4	c	921	b	992								
	.7	.8	5	03	000	f	944								
	.9	.10	6	e	921	-									
	.11	.12	7	r	975	u	136								
	5.1	5.2	8	b	000	1	000						M(S _{l,n})		
	.3	.4	9	f	941	e	921								
E51	.5	.6	040	r	975	u	136								
	6.1	6.2	1	l	992	q	046								
	7.1	7.2	2	b	992	a-	941								
	8.1	8.2	3	c	992	b	038								
	.3	.4	4	a-	922	c	038								
	.5	.6	5	-		u	031								
	9.1	9.2	6	b	000	1	000						M(S _{l,n})		
	.3	.4	7	e	933	-									
	.5	.6	8	r	975	u	136								
	10.1	10.2	9	b	997	a-	941								
E53	.3	.4	050	h	997	k	000								
	.5	.6	1	-		q	057								
	11.1	11.2	2	b	055	a-	941								
	.3	.4	3	c	055	b	046								
	.5	.6	4	a-	922	c	046								
	12.1	12.2	5	-		b	879								M(H _l)
	.3	.4	6	-		u	043								
	13.1	13.2	7	b	941	c	999								
	.3	.4	8	r	975	u	131								
	14.1	14.2	9	b	026	h	061								
E58	.3	.4	060	c	099	f	972								
	.5	.6	1	-		-									
	.7	.8	2	g	997	c	992							B	M(H _l)
	.9	.10	3	r	976	u	144								
	.11	.12	4	r	976	u	152								
	.13	.14	5	r	976	u	182								
	15.1	15.2	6	b	964	c	977								
	.3	.4	7	r	975	u	133								
	.5	.6	8	b	992	a-	941								
	15.7	15.8	9	c	992	-									

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
	15.9	15.10	070	r	975	u	121								
	16.1	16.2	1	b	997	06	000								
	.3	.4	2	f	943	e	921								
	.5	.6	3	c	921	b	992								
	.7	.8	4	03	000	f	944								
	.9	.10	5	e	921	-									
	.11	.12	6	r	975	u	136								
	17.1	17.2	7	l	992	q	082								
	.3	.4	8	b	990	1	000								
	.5	.6	9	f	941	e	933								
	.7	.8	080	r	975	u	136								
	.9	.10	1	-		u	066								
e55	18.1	18.2	2	b	990	1	000								
	.3	.4	3	f	941	e	921								
	.5	.6	4	r	975	u	136								
	.7	.8	5	r	975	u	121								
	19.1	19.2	6	b	990	1	000								
	.3	.4	7	f	941	e	921								
	.5	.6	8	r	975	u	136								
	.7	.8	9	r	975	u	121								
	20.1	20.2	090	k	000	b	990								
	.3	.4	1	f	942	t	960								
	21.3	21.4	2	-		-									
	.5	.6	3	f	941	e	921								
	.7	.8	4	r	975	u	136								
e56	22.1	22.2	5	k	000	b	997								
	.3	.4	6	s-	941	q	101								
	24.1	25.1	7	c	997	b	099								
	25.2	.3	8	s-	941	c	099								
	26.1	26.2	9	edit	r	outline									
	.3	.4	100	c	992	u	066								
e57	.5	.6	1	r	975	u	121								
	27.1	27.2	2	k	000	b	990								
	.3	.4	3	f	942	t	957								
			4	-		-									
			5	r	975	u	136								
	29.1	29.2	6	l	973	b	999								
	.3	.4	7	-		q	110								
	30.1	30.2	8	a-	941	c	999								
	.3	.4	9	-		u	059								
			110	r	976	u	144								
	31.1	31.2	1	b	946	50	948								
	31.3	31.4	2	r	975	u	136								
	32.1	32.2	3	b	136	a	936								
	33.1	33.2	4	b	935	u	112								
	34.1	34.2	5	l	935	j	249								
	.3	.4	6	77	190	50	009								
	.5	.6	7	33	200	30	200								
	35.1	35.2	8	66	000	u	200								
	.3	.4	9	33	860	33	860								
	.5	.6	120	33	920	u	920								
B4	1.1	1.2	1	-		-						V40 + i	250 + i	W	990
e40	5.1	5.2	2	l	990	b	008								
	.3	.4	3	f	969	q	128								
	6.1	6.2	4	s-	990	04	000								
	.3	.4	5	e	126	c	126								
	7.1	7.2	6	b	991	-x	000								
	9.1	9.2	7	c	990	u	129								
	8.1	8.2	8	b	991	u	127								
e42	2.1	2.2	9	b	121	a	968								

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
E ₄₁	2.3	2.4	130	c	121	u	975								
	3.1	3.2	1	b	967	c	121								
	4.1	4.2	2	36	250	u	975								
E ₆	1.1	1.2	3	b	978	a	936								
	2.1	2.2	4	c	978	u	975								
	1.3	1.4	5	-		u	977								
E ₇	1.1	1.2	6	h4	190	-						40 + i	x _i		
	2.1	2.2	7	b	136	a	936								
	3.1	3.2	8	c	136	u	975								
	4.1	5.1	9	77	190	l	938								
	5.2	.3	140	b	009	a-	941								
	.4	.5	1	h	009	q	143								
	6.1	6.2	2	b	937	u	138								
	7.1	7.2	3	90	000	u	856								
	1.1	1.2	4	r	975	-									
E ₈	.3	.4	5	b	978	a	966								
	3.1	3.2	6	c	978	u	150								
	2.1	2.2	7	b	978	a	936								
	4.1	4.2	8	c	978	u	151								
	2.3	2.4	9	-		u	976								
	5.1	5.2	150	b	947	u	136								
	6.1	6.2	1	b	965	u	136								
	1.1	1.2	2	b	958	-									
	1.3	1.4	3	r	975	u	136								
E ₁₀	2.1	2.2	4	b	890	-									
	2.3	2.4	5	r	975	u	136								
	3.1	3.2	6	b	963	a-	962								
	.3	.4	7	h	963	-									
	.5	.6	8	r	975	u	136								
	4.1	4.2	9	b	007	-									
	4.3	4.4	160	r	975	u	136								
	.5	.6	1	-		u	976								
	1.1	1.2	2	b	008	02	000								
E ₉	.3	.4	3	f	940	e	923								
	.5	.6	4	r	975	u	136								
	2.1	2.2	5	b	924	-									
	.3	.4	6	r	975	u	136								
	3.1	4.1	7	b	974	f	942								
	4.2	4.3	8	-		-									
	4.4	.5	9	r	975	u	136								
	5.1	5.2	170	b	925	-									
	.3	.4	1	r	975	u	136								
E ₉₁	6.1	7.1	2	b	998	-									
	7.2	7.3	3	r	977	u	136								
	8.1	8.2	4	b	926	-									
	.3	.4	5	r	975	u	136								
	9.1	9.2	6	b	927	-									
	.3	.4	7	r	975	u	136								
	10.1	10.2	8	b	945	c	978								
	.3	.4	9	b	928	-									
	.5	.6	180	r	975	u	136								
E ₁₁	.7	.8	1	-		u	976								
	1.1	1.2	2	b	999	03	000								
	.3	.4	3	f	944	e	929								
	.5	.6	4	r	975	u	136								
	2.1	2.2	5	b	189	c	978								
	.3	.4	6	b	930	-									
	.5	.6	7	r	975	u	136								
	3.1	3.2	8	b	931	u	949								
			9	075000	-										

300

CONNECTOR ENTRY	ORDER #		STORAGE ASSIGN- MENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS				
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA	
C ₁	10.1	11.1	200	23	000	43	860									
	11.2	.3	1	43	860	43	860									
	.4	.5	2	43	860	43	860									
	.6	.7	3	43	860	43	860									
	.8	.9	4	43	860	43	860									
	.10	.11	5	43	860	43	860									
	.12	.13	6	43	860	43	860									
	.14	.15	7	43	860	43	860									
	.16	.17	8	43	860	43	860									
	11.18	11.19	9	43	860	43	860									
	.20	.21	210	43	860	43	860									
	.22	.23	1	43	860	43	860									
	12.1	12.2	2	33	860	33	860									
	13.1	13.2	3	33	920	b	220									
	.3	.4	4	k	000	q9	220									
	13.5	13.6	5	-		u	920									
			6	-		-										
			7	-		-										
			8	-		-										
			9	-		-										
C ₂	20.1	21.1	220	50	973	10	842									
	22.1	22.2	1	l	842	b	973									
	22.3	22.4	2	-		t	225									
	23.1	23.2	3	b	973	q	920									
	24.1	24.2	4	33	920	u	223									
	25.1	26.1	5	43	920	43	920									
	27.1	27.2	6	b	973	q	228									
	28.1	28.2	7	43	920	u	226									
	29.1	29.2	8	33	920	33	920									
	29.3	29.4	9	33	920	u	920									
			230	-		-										
			1	-		-										
			2	-		-										
			3	-		-										
			4	-		-										
			5	-		-										
			6	-		-										
			7	-		-										
			8	-		-										
			9	-		-										
			240	-		-										
			1	-		-										
			2	-		-										
			3	-		-										
			4	-		-										
			5	-		-										
			6	-		-										
			7	-		-										
			8	-		-										
			9	-		-										
			250	-		-										
			1	-		-										
			2	-		-										
			3	-		-										
			4	-		-										
			5	-		-										
			6	-		-										
			7	-		-										
			8	-		-										
			9	-		-										

Block #76

301

CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
P1.10	31.1	31.2	860	b	899	a	501								
	.3	.4	1	c	899	b	884								
	.5	.6	2	a	501	c	884								
	.7	.8	3	b	891	a	501								
	31.9	31.10	4	c	891	u	872								
P1.11	32.1	33.1	5	50	911	10	008								
	34.1	35.1	6	50	010	l	008								
	35.2	35.3	7	b	010	q	922								
	36.1	36.2	8	50	912	u	870								
	37.1	37.2	9	-		u	905								
	38.1	38.2	870	90	000	b	913								
	.3	.4	1	c	868	u	865								
P1.16	39.1	39.2	2	b	010	50	010								
	.3	.4	3	.3	000	.3	000								
	39.5	40.1	4	c	010	12	000								
	41.1	42.1	5	32	510	b	010								
	42.2	.3	6	l	510	q	878								
	.4	.5	7	-		u	875								
	43.1	43.2	8	42	510	42	510								
	.3	44.1	9	30	510	13	000								
	45.1	45.2	880	l	017	d-	037		M(H ₁)		M(b ₁)				
	.3		1	c	047	-			M(Δ ₁)						
	46.1	46.2	2	b	899	a	914								
	47.1	47.2	3	c	899	u	896								
P1.14	50.1	50.2	4	b99037	c	830						xx	M(b ₂)		829 + l
	51.1	51.2	5	b	884	a	914								
	52.1	52.2	6	c	884	u	884								
	53.1	53.2	7	b	015	c	010								
	.3	.4	8	b	014	a	971								
	.5	.6	9	a	971	a	971								
	53.7	53.8	890	a	971	c	015								
	54.1	54.2	1	b99017	.9	000						xx	M(H ₂)		
	.3	.4	2	c	017	-							M(H ₂)		
	55.1	55.2	3	b	891	a	976								
	56.1	56.2	4	c	891	u	903								
	55.3	55.4	5	-		u	250								
	48.1	48.2	6	b	900	a	972								
	.3	.4	7	c	900	b	901								
	48.5	48.6	8	a	971	c	901								
	49.1	49.2	9	l99017	b	037						xx	M(H ₂)		M(b ₂)
	.3	.4	.00	b	036	c	500						M(b ₂ -1)		
	.5	.6	1	d-	500	c	047								M(Δ ₂)
	49.7	49.8	2	-		u	882								
	56.3	56.4	3	b	892	a	972								
	.5	.6	4	c	892	u	891								
P1.12	57.1	57.2	5	61	000	11	000								
P1.17	58.1	59.1	6	31	010	l	008								
	59.2	.3	7	b	010	q	909								
	.4	59.5	8	-		u	906								
	60.1	60.2	9	41	510	40	510								
	.3	.4	910	-		u	922								
			1	RwhatΔ	probΔΔ										
			2	Rwrong	ΔprobΔ										
			3	-	q8	919									
			4	001001	00	001									
	15.12	15.13	5	x	000	s	971								
	.14	.15	6	c	502	s	502								
	.16	.17	7	08	000	u	265								
P1.15	2.2	2.3	8	30	010	u	865								
P1.18	3A.1	3A.2	9	11	000	u	906								

Block #77

302

CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
P1	0.1	1.1	920	31	250	50	977								
	1.2	2.1	1	10	010	u	918								
Pl.13	3.1	3.2	2	b	971	s	012								
	.3	.4	3	09	000	h	501								
	.5	.6	4	a	251	c	251								
	.7	.8	5	b	255	a	501								
	3.9	3.10	6	c	255	u	860								
	16.10	16.11	7	k	000	p	971								
	.12	.13	8	x	000	h	502								
	.14	.15	9	a	294	c	294								
	.16	.17	930	b	295	a	502								
	16.18	16.19	1	c	295	u	978								
	16.24	16.25	2	c	387	b	502								
	.26	.27	3	6	000	a	390								
	.28	.29	4	c	390	g	502								
	.30	.31	5	b	296	a	502								
	.32	.33	6	c	296	b	297								
	16.34	16.35	7	a	502	c	297								
	17.1	18.1	8	31	430	b	011								
	18.2	18.3	9	a	012	k	000								
	.4	.5	940	p	013	x	000								
	.6	.7	1	k	000	b	974								
	18.8	18.9	2	-	-	t	960								
	19.1	19.2	3	a	975	t	961								
	20.1	20.2	4	a	975	t	956								
	.3	.4	5	r	959	u	958								
	21.1	22.1	6	31	190	b	277								
	22.2	22.3	7	c	503	v	278								
	22.4	23.1	8	w	504	30	860								
	24.1	24.2	9	y	860	z	250								
	.3	.4	950	y	870	z	260								
	.5	.6	1	y	880	z	270								
	25.1	25.2	2	b	503	c	277								
	.3	.4	3	v	504	w	278								
P1.9	26.1	26.2	4	-	-	-	-								
	26.3	26.4	5	-	-	u	300								
P1.7	27.1	27.2	6	r	959	t	958								
	.3	.4	7	30	190	u	954								
P1.8	28.1	28.2	8	31	070	31	130								
	.3	.4	9	-	-	-	-								
P1.5	29.1	29.2	960	30	070	u	954								
Pl.6	30.1	30.2	1	31	070	30	130								
	.3	.4	2	-	-	u	954								
	7.3	7.4	3	b	965	a-	971								
	7.5	7.6	4	a-	972	c	965								
	8.1	8.2	5	l	047	b	046								
	8.3	8.4	6	h	500	q	250								
	9.1	9.2	7	d-	500	u	251								
	13.3	13.4	8	b	256	a	972								
	13.5	13.6	9	c	256	u	255								
			970	099999	999999										
			1	-	-	00	001								
			2	00	001	-	-								
			3	-	-	re	006								
			4	-	-	00	054								
			5	-	-	00	060								
			6	001001	-	-	-								
			7	BRtype	ΔtimeR	-	-								
	16.20	16.21	8	b	502	6	000								
	16.22	16.23	979	a	387	u	932								

Block #78

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
P1.0	4.1	4.2	250	b	970	-									
P1.1	5.1	5.2	1	c	99037	-						xx	$M(\Delta \ell_{-1})$		
	6.1	6.2	2	b	251	a	976								
	7.1	7.2	3	c	251	u	963								
P1.2	10.1	10.2	4	33	310	-									
P1.3	11.1	11.2	5	899047	m	047						xx	$M(\Delta \ell)$		$M(\Delta \ell)$
	11.3	12.1	6	c	047	b	255						$M(\Delta \ell)$		
	12.2	12.3	7	a	971	a	976								
	13.1	13.2	8	c	255	u	968								
P1.4	14.1	15.1	9	33	370	b	501								
	15.2	.3	260	a	286	c	286								
	.4	.5	1	s	014	09	000								
	.6		2	a	284	c	284								
	.8		3	l	014	p	012								
	15.10	15.11	4	x	000	u	915								
	15.18	15.19	5	a	296	c	296								
	.20	.21	6	b	015	s	971								
	.22	.23	7	h	014	k	000								
	.24	.25	8	p	012	x	000								
	.26	.27	9	x	000	h	502								
	.28	.29	270	a	285	c	285								
	.30	15.31	1	b	286	a	502								
	15.32	16.1	2	c	286	s	016								
	16.2	.3	3	s	012	09	000								
	.4	.5	4	a	501	a	294								
	.6	.7	5	c	294	b	012								
	16.8	16.9	6	a	012	u	927								
			7	Rxsec	Δ calc				P0.1						
			8	starti	ng				P0.2						
			9	ending					P0.3						
			280	Rxsec	Δ err	Δ JR			P4.1						
			1	z91650	z	740			D1.1						
			2	a-	630	h	630		D1.2						
			3	c	631	b	366		D1.3						
			4	a97630	a	631			D1.4			-G			
			5	k	000	s	630		D1.5						+2(3+G)L
			6	b99500	s	631			D1.6						+2(3+G)L
			7	l	499	m	077		D3.1			-L+1			
			8	-	-	-			D3.2						
			9	-	-	-			D3.3						
			290	-	-	-			D4.1						
			1	-	-	-			D4.2						
			2	-	-	-			D4.3						
			3	y4	510	z	500		D2.1						
			4	899473	d	630			D5.1			-4L+1			+2L
			5	-	-	c	630		D5.2						+2L
			6	099900	d	630			D5.3			-2GL+1			+6L
			7	-	-	c	630		D5.4						+6L
			8	b	630	l	631		D6.1						
			9	w4	570	-			D7.1						
X0	0.1	0.2	300	50	277	50	278								
	1.1	1.2	1	12	000	32	510								
	2.1	2.2	2	c	495	c	495								
X0.1	3.1	3.2	3	b	495	l	010								
	3.3	3.4	4	-	-	q	324								
X1	10.1	10.2	5	a	467	c	495								
	11.1	11.2	6	b	384	a	467								
	11.3	12.1	7	c	384	b	281								
	12.2	13.1	8	c	313	c	630								
	13.2	14.1	309	c	631	v	630								

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
	14.2	14.3	310	w	632	w	634								
	14.4	14.5	1	w	636	w	638								
	15.1	15.2	2	y	630	z	640								
x _{1.1}	16.1	16.2	3	-	-	-	-								
	17.1	17.2	4	b	313	a	478								
x _{1.3}	18.1	18.2	5	c	313	u	313								
x _{1.2}	19.1	19.2	6	v	282	w	288								
	1A.1	1A.2	7	v	284	w	290								
	.3	.4	8	b	286	c	292								
x _{0.2}	4.1	4.2	9	a	467	h	494								
	5.1	5.2	320	l	015	t	330								
	.3	.4	1	r	449	u	334								
			2	r	449	u	339								
	9.1	9.2	3	b	494	u	319								
x _{0.3}	6.1	6.2	4	55	570	55	570								
	.3	.4	5	62	000	65	000								
	7.1	7.2	6	50	277	50	279								
P ₂	8.1	8.2	7	33	920	31	920								
	8.3	8.4	8	50	979	b	016								
	8.5	8.6	9	-6	000	u	479								
x _{0.4}			330	r	449	u	421								
			1	r	449	u	450								
			2	r	449	u	377								
			3	-	-	u	303								
x ₂	20.1	20.2	4	y5	520	z	500								
	21.1	21.2	5	b	334	a	476								
	22.1	22.2	6	c	334	u	449								
	23.1	23.2	7	b	293	32	510								
	.3	.4	8	-	-	u	336								
x ₃	30.1	30.2	9	b	287	c	351								
x _{3.1}	31.1	31.2	340	a	467	c	496								
	.3	.4	1	b	467	c	497								
	32.1	32.2	2	b	288	h	352								
	.3	.4	3	h	367	a	469								
	.5	.6	4	c	354	b	289								
	32.7	33.1	5	c	368	b	351								
	33.2	.3	6	a	468	h	351								
	.4	.5	7	h	366	a-	467								
	33.6	33.7	8	c	353	-	-								
x _{3.2}	34.1	34.2	9	l	011	b	497								
	.3	.4	350	-	-	t	366								
	35.1	35.2	1	-	-	-	-								
	.3	.4	2	-	-	-	-								
	.5	.6	3	-	-	-	-								
	35.7	35.8	4	-	-	-	-								
	36.1	36.2	5	b	353	a	467								
x _{3.4}	37.1	37.2	6	h	351	h	366								
	.3	.4	7	a	467	c	353								
	38.1	38.2	8	b	354	a	469								
	.3	.4	9	h	352	h	367								
	.5	.6	360	a	469	c	354								
	.7	.8	1	b	368	a	480								
	38.9	39.1	2	c	368	l	012								
	39.2	39.3	3	b	497	q	370								
	3A.1	3A.2	4	a	467	c	497								
	.3	.4	5	-	-	u	349								
x _{3.3}	3B.1	3B.2	6	-	-	-	-								
	.3	.4	7	-	-	-	-								
	3B.5	3C.1	8	-	-	-	-								
	3C.2	3C.3	369	a	467	u	356								

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
x3.5	3D.1	3D.2	370	l	013	b	496								
	.3	.4	1	-		q	373								
	.5	.6	2	-		u	340								
x3.6	3E.1	3E.2	3	b	288	a	016								
	.3	.4	4	c	288	b	016								
	.5	.6	5	j	000	a	289								
	3E.7	3E.8	6	c	289	u	449								
x6	60.1	60.2	7	b	485	c	499								
x6.1	61.1	61.2	8	b	467	c	497								
x6.2	62.1	62.2	9	c	498	-									
	.3	.4	380	b	298	c	394								
	63.1	63.2	1	b	017	l	027						M(H _l)		M(s _l)
	.3	.4	2	c	500	x	000								
	.5	.6	3	r	420	u	443								
	64.1	64.2	4	b	037	l	056						$M(\frac{\Delta l-1}{\Delta l})$		M(β)
	.3	.4	5	c	500	x	000								
	.5	.6	6	r	420	u	443								
	65.1	65.2	7	l	630	m	047						$M(30^F_{TR})$		M($\Delta \frac{1}{2}$)
	.3	.4	8	c	500	l	473								
	.5	.6	9	d	-	500	c	500							
	65.7	.8	390	l	631	m	047						$M(30^D_{TR})$		M($\Delta \frac{1}{2}$)
	.9	.10	1	c	501	l	473								
	.11	.12	2	d	-	501	-								
	.13	.14	3	r	420	u	443								
x6.4	66.1	66.2	4	-		-									
	.3	.4	5	c	500	x	000								
	.5	.6	6	r	420	u	443								
x6.3	67.1	67.2	7	l	499	b	498								
	.3	.4	8	a	467	q	402								
	68.1	68.2	9	-		c	498								
	.3	.4	400	b	394	a	016								
	.5	.6	1	c	394	u	394								
x6.5	69.1	69.2	2	l	012	b	497								
	.3	.4	3	a	467	t	413								
	6A.1	6A.2	4	c	497	b	298								
	.3	.4	5	a	471	c	298								
	.5	.6	6	b	381	a	469								
	.7	.8	7	c	381	b	384								
	.9	.10	8	a	472	s	469								
	.11	.12	9	c	384	b	387								
	.13	.14	410	a	472	c	387								
	.15	.16	1	b	390	a	472								
	6A.17	6A.18	2	c	390	u	379								
x6.6	6B.1	6B.2	3	k	000	-									
	.3	.4	4	-		s	471								
	.5	.6	5	c	471	s	469								
	.7	.8	6	c	469	s	472								
	6B.9	6C.1	7	c	472	l	499								
	6C.2	6C.3	8	b	014	q	449								
	6D.1	6D.2	9	c	499	u	378								
			420	-		-									
x4	40.1	40.2	1	v	290	w	423								
	.3	.4	2	b	292	c	428								
	41.1	41.2	3	-		-									
x4.1	42.1	42.2	4	-		-									
	42.3	43.1	5	c	500	b	424								
	43.2	43.3	6	a	016	a	474								
	44.1	44.2	7	c	424	u	434								
	45.1	45.2	8	-		-									
	.3	.4	429	h	500	j	1 000								

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
	45.5	45.6	430	.3	000	q	435								
	46.1	46.2	1	50	280	50	500								
	.3	.4	2	50	495	90	000								
	.5	.6	3	90	000	u	433								
	44.3	44.4	4	b	500	u	424								
x4.2	47.1	47.2	5	b	292	a	470								
	.3	.4	6	a	474	-									
	48.1	48.2	7	c	292	u	439								
	49.1	49.2	8	-		u	449								
	48.3	48.4	9	b	291	a	470								
	.5	.6	440	c	291	b	290								
	.7	.8	1	a	471	c	290								
	48.9	48.10	2	-		u	421								
x7	70.1	70.2	3	c	501	v	500								
	71.1	71.2	4	w4	570	-									
	72.1	72.2	5	b	444	a	477								
	73.1	73.2	6	c	444	u	420								
	74.1	74.2	7	b	299	55	570								
	74.3	74.4	8	-		u	446								
			9	-		-									
x5	50.1	50.2	450	v	294	w	452								
	.3	.4	1	v	296	w	482								
x5.1	51.1	51.2	2	-		-									
	.3	.4	3	-		-									
	52.1	52.2	4	b	452	a	474								
	53.1	53.2	5	a	467	u	461								
	52.3	52.4	6	-		u	481								
			7	-		-									
	55.1	55.2	8	b	482	a	475								
	56.1	56.2	9	a	467	u	464								
	55.3	55.4	460	-		u	449								
	53.3	53.4	1	c	452	b	453								
	.5	.6	2	a	467	c	453								
	53.7	53.8	3	-		u	452								
	56.3	56.4	4	c	482	b	483								
	.5	.6	5	a	467	c	483								
	56.7	56.8	6	-		u	481								
			7	-		00	001								
			8	00	001	-									
			9	00	001	00	001								
			470	-		00	002								
			1	00	002	00	002								
			2	00	002	00	001								
			3	01	000	-									
			4	001000	-										
			5	00	100	-									
			6	01	010	-									
			7	002002	-										
			8	001010	00	010									
	8.7	8.8	9	c	016	u	920								
			480	00	002	-									
x5.2		54.0	1	-		l	475								
	54.1	54.2	2	-		-									
	.3	.4	3	-		-									
	54.5	54.6	4	-		u	458								
			5	-		00	003								
			6	-		-									
			7	-		-									
			8	-		-									
			9	-		-									

CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
P201	02.1	03.1	920	33	770	33	860								
	03.2	04.1	1	50	978	b	923								
	04.2	04.3	2	a-	011	c	923								
	05.1	05.2	3	-		b	829								
	05.3	06.1	4	c	993	l	923								
	06.2	06.3	5	r	859	q2	856								
P ₂	11.1	11.2	6	b	958	c	998								
	.3	.4	7	l	770	m	830								
	.5	.6	8	k	000	m	957								
	.7	.8	9	c	990	l	993								
	.9	.10	930	d-	990	k	000								
	.11	.12	1	m	830	c	990								
	.13	.14	2	l	993	d-	990								
	11.15	11.16	3	h	980	c	994								
P211	12.1	12.2	4	b	998	a-	958								
	.3	.4	5	h	998	-									
	13.1	13.2	6	l	012	t	960								
	14.1	14.2	7	l	011	t	955								
P212	15.1	15.2	8	b	831	f	830						M($\bar{b}$)		M($\bar{b}-1$)
	.3	.4	9	c	991	g	990								
	16.1	16.2	940	b	991	s-	990								
	.3	.4	1	k	000	m	957								
	.5	.6	2	k	000	m	771								M($\bar{s}_{f,p}$)
	.7	.8	3	c	992	l	993								
	.9	.10	4	d-	992	k	000								
	.11	.12	5	b	991	a-	990								
	.13	.14	6	c	992	m	992								
	.15	.16	7	c	992	l	993								
	16.17	16.18	8	d-	992	h	981								M($\bar{y}_l^0$)
	17.1	17.2	9	a-	994	c	994								
	18.1	18.2	950	b	942	a-	958								
	.3	.4	1	c	942	b	938								
	.5	.6	2	a-	959	c	938								
	.7	.8	3	b	948	a-	958								
	.9	18.10	4	c	948	u	934								
P213	19.1	19.2	5	c	949	c	949								
	19.3	19.4	6	-		u	938								
			7	063661		977236									
			8	-		00 001									
			9	00 001		00 001									
P ₂	20.1	20.2	960	33	070	50	977								
	21.1	21.2	1	r	859	q2	856								
	22.1	22.2	2	64	000	b	017								
	.3	.4	3	c	880	b	018								
	.5	.6	4	c	881	b	019								
	.7	.8	5	c	882	b	020								
	.9	.10	6	c	883	b	021								
	.11	.12	7	c	884	b	022								
	.13	.14	8	c	885	b	023								
	.15	.16	9	c	886	b	024								
	.17	.18	970	c	887	b	025								
	.19	.20	1	c	888	b	026								
	.21	.22	2	c	889	v	782								
	.23	.24	3	w	896	-									
	.25	.26	4	s-	781	c	893								
	22.27	22.28	5	b	008	c	890								
	23.1	23.2	6	33	920	u	920								
			7	Rprel i		mΔ2-2'			PRELIM	2-2					
			8	Rprel i		mΔ2-1'			PRELIM	2-1					
			979	Rprel i		mΔ2-0'			PRELIM	2-0					

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
820	20.1	20.2	920	50	935	c	990								
	.3	.4	1	v	936	w	928								
	.5	.6	2	r	934	u	928								
	21.1	21.2	3	v	928	w	928								
	.3	.4	4	r	934	u	928								
	22.1	22.2	5	45	920	b	008								
	.3	.4	6	a-	061	c	008								
821	.5	.6	7	b	990	u	012								
	23.1	23.2	8	-	-	-	-						C23.1	C23.2	
	.3	.4	9	-	-	-	-						C23.3	C23.4	
	24.1	24.2	930	b	929	s-	061								
	24.3	25.1	1	c	929	b	928								
	25.2	.3	2	a	061	a	065								
	.4	.5	3	c	928	u	928								
	26.1	26.2	4	-	-	-	-							s21	EXIT
			5	ΔΔres	cale''				RESCALE						
			6	099400	b	992			D ₂₀						
			7	-1 000	c	992			D ₂₁						
			8	099900	b	000			D ₂₂						M(V _{1,1})
			9	-1 000	c	000			D ₂₃						M(V _{1,1})
			880	-	-	-	-		H ₁						
			1	-	-	-	-		H ₂						
			2	-	-	-	-		:						
			3	-	-	-	-		.						
			4	-	-	-	-		H _L						
			5	-	-	-	-								
			6	-	-	-	-								
			7	-	-	-	-								
			8	-	-	-	-								
			9	-	-	-	-								
			890	-	-	-	-		PROB. #						
			1	b	000	;	1 000		D ₁				M(IS ₁)		
			2	b	000	;	1 000		D ₂				M(S ₁)		
			3	-	-	-	-		c m-1						
			4	-	-	-	-		μ m-1						
			5	01 000	-	-	-		M ₁ -1						
			6	-	-	-	-		δ						
			7	-	-	-	-		ε						
			8	b99zzz	a-	000			D ₁₀₀			B9X	X = 10-C		M(Y ₁)
			9	-0 000	h	991			D ₁₀₁						
			900	l 895	m	000			D ₁₁₀						M(IS ₁)-1
			1	b	000	u	zty		D ₁₁₁			BXX	M(Y ₁)-1	XX = 99+L	
			2	b	000	-2	000		D ₁₃₀			BXX	M(Q _{1,0})-1	XX = 99+N-L	
			3	c	000	c	000		D ₁₃₁				M(S ₁)-1		M(Q _{1,0})-1
			4	b	000	-2	000		D ₁₃₂			BXX	M(Y ₁)-1	XX = 99+L	
			5	c	000	c	000		D ₁₃₃				M(IS ₁)-1		M(Y ₁)-1
			6	Rsourc	e	'R'			P ₁						
			7	Rconve	r	ged	'R'		P ₂						
			8	Rcriti	cal	'R'			P ₃						
S10	100.1	100.2	9	b	898	c	911								
	.3	.4	910	c	999	50	906								
	101.1	101.2	1	-	-	-	-								
	101.3	102.1	2	c	999	b	911								
S100	102.2	.3	3	a	069	c	911								
	.4	103.1	4	-	-	u	911								
	104.1	104.2	5	43	920	a	008								
	.3	.4	6	09	000	01	000								
	.5	.6	7	a	899	h	919								
	.7	105.1	8	c	924	b	063								
	106.1	106.2	9	-	-	-	-								

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
			070	-		10 000		10^{-6}							
			1	00-999		00-999		10^{-1}							
			2	a96zz+	c	980		D_{30}							
			3	v4 920	b	ψwz		D_{31}							
			4	a99zz+	c	980		D_{40}				A9X	X = 6-G		
			5	w4 860	b	ψwz		D_{110}							
			6	00 010	-			10^{-4}							
			7	-		50 000		$.5 \times 10^{-5}$							
			8	c 000	g	000		C_5							
			9	m 000	f	000		C_6				$M(u_{1,1})$			$M(v_{1,1})$
			080	a- 000	c	000		D_{50}				$M(Sf_{1,0})$			$M(SIN_{1,0})$
			1	a- 000	c	000		D_{51}				$1+M(L_{1,H})$			$1+M(L_{1,H})$
			2	a- 000	c	000		D_{60}				$1+M(Q_{1,H})$			$1+M(Q_{1,H})$
			3	a- 000	c	000		D_{61}				$1+M(P_{1,H})$			$1+M(P_{1,H})$
			4	-	-	-						$g_3(L)$			
			5	-	-	-						$f_6(L,H)$			
			6	m99984	c	zz+		D_{54}				M9X	X = 10-G		
			7	l 992	m	000		D_{10}							$1+M(u_{1,H})$
			8	d 990	a	000		D_{11}							$1+M(v_{1,H})$
			9	m 000	f	000		D_{70}				$M(IS_{f1})$			$M(IS_{IN1})$
			090	-	-	-						D_{32}			
			1	-	-	-						D_{43}			
			2	-	-	-						D_{62}			
			3	-	-	-						D_{63}			
			4	-	-	-						$g_3(L)$			
			5	-	-	-						$f_6(L,H)$			
			6	-	-	-						H_{11}			
			7	-	-	-						$s_{1,1}$			
			8	-	-	-						$\Delta_{1,1}/\Delta_{1,1}$			
			9	-	-	-						β_1			
			100	-	-	-						$(\pi/2)^2$	10^{-5}		
			1	-	-	-						N^*			
			2	-	-	-						L^*			
			3	-	-	-						P^*			
			4	-	-	-						c^m			
I54	57.1	57.2	5	b 991	-	-						$C_{57.3}$		$C_{57.4}$	
	.3	.4	6	-	-	-									
	58.1	58.2	7	b 990	;	6 000									
	.3	.4	8	a- 990	a-	106									
	.5	.6	9	c 106	u	117									
I5	50.1	50.2	110	b 090	a-	071									
	.3	.4	1	h 090	c	106									
	.5	.6	2	b 091	a-	071									
	.7	.8	3	h 091	c	125									
	.9	.10	4	l 992	b	101									
I51	51.1	51.2	5	a- 102	c	990									
	.3	.4	6	b 086	c	117									
I52	52.1	52.2	7	-	-	-						$C_{52.1}$		$C_{52.2}$	
	53.1	53.2	8	b 117	a	069									
	54.1	54.2	9	c 117	u	105									
I53	55.1	55.2	120	b 106	;	6 000									
	.3	.6	1	c 122	b	991									
	56.2	56.3	2	-	-	-						$C_{56.2}$		$C_{56.3}$	
I61	59.1	59.2	3	m 099	u	125									
	.3	.4	4	l 064	d-	990						TEMPORARY			
	62.1	62.2	5	-	-	-						$C_{62.1}$		$C_{62.2}$	
	63.1	63.2	6	-	-	-									
			7	Rba Δ c	K Δ Δ 01			K_{20}							
I6	60.1	60.2	8	b 092	a-	071									
	60.3	60.4	9	h 092	c	106									

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
P221	24.1	24.2	920	b	014	s-	978								
	.3	.4	1	h	997	k	000								
	.5	.6	2	b	010	c	103								
	.7	.8	3	b	012	c	102								
	.9	.10	4	b	784	c	101								
	.11	.12	5	p	102	j	995								
	.13	.14	6	p	101	j	996								
	.15	24.16	7	b	785	a-	101								
	24.17	25.1	8	h	990	a-	878								
	25.2	25.3	9	c	878	b	879								
	.4	.5	930	s-	990	c	879								
	.6	.7	1	b	990	a-	101								
	.8	25.9	2	s-	979	h	990								
	26.1	26.2	3	06	000	a-	903								
	.3	.4	4	c	903	b	990								
	.5	.6	5	a-	101	a-	102								
	.7	.8	6	h	990	061000			1000*						
	.9	.10	7	a-	892	c	892								
	.11	.12	8	b	990	a-	996								
	26.13	.14	9	a-	995	a-	995								
	.15	.16	940	h	990	a-	900								
	.17	.18	1	c	900	b	990								
	.19	.20	2	06	000	a-	905								
	.21	.22	3	c	905	b	990								
	.23	.24	4	a-	102	h	990								
	.25	.26	5	06	000	a-	891								
	.27	.28	6	c	891	b	990								
	.29	.30	7	06	000	a-	902								
	.31	.32	8	c	902	b	990								
	26.33	26.34	9	a-	903	c	903								
P222	27.1	27.2	950	b	990	a-	101								
	.3	.4	1	a-	102	h	990								
	.5	.6	2	06	000	a-	901								
	.7	.8	3	c	901	b	990								
	.9	.10	4	a-	905	c	905								
	.11	.12	5	b	990	06	000								
	.13	.14	6	a-	904	c	904								
	.15	.16	7	b	990	a-	979								
	27.17	27.18	8	a-	898	c-	898								
	28.1	28.2	9	b	979	s-	011								
	.3	.4	960	09	000	a-	898								
	.5	.6	1	c	898	s-	102								
	.7	.8	2	a-	977	u	974								
	28.13	28.14	3	c	901	b	904								
	.15	.16	4	a-	991	c	904								
	.17	.18	5	s-	101	09	000								
	.19	.20	6	a-	991	-									
	.21	.22	7	a-	902	c	902								
	.23	.24	8	s-	990	a-	101								
	.25	.26	9	s-	102	a-	785								
	.27	.28	970	08	000	a-	878								
	28.29	29.1	1	c	878	l	978								
	29.2	.3	2	r	859	q2	856								
	2A.1	2A.2	3	33	920	u	920								
	28.9	28.10	4	09	000	h	991								
	28.11	28.12	5	a-	901	u	963								
			6	-	-										
			7	-	-	00	099		99*						
			8	-	-	00	003		3*						
			9	-	-	00	001		1*						

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
P ₂	30.1	30.2	920	b	922	k	000								
	.3	.4	1	r	859	q2	856								
	31.1	31.2	2	54	860	50	952								
	32.1	33.1	3	33	010	b	931								
	33.2	.3	4	a-	102	c	931								
	.4	.5	5	b	933	a-	102								
	.6	.7	6	c	933	b	934								
	.8	.9	7	a-	102	c	934								
P231	34.1	34.2	8	l	780	d-	950								
	.3	.4	9	h	990	k	000								
	.5	.6	930	m	990	-5	000								
	.7	35.1	1	c	100	b	879		D ₃₀₁						M(H ₁ ⁺)
	35.2	.3	2	09	000	k	000								
	.4	36.1	3	c	829	b	829		D ₃₀₂						M(b ₁)
	36.2	.3	4	h	990	s-	828		D ₃₀₃						M(b ₁₋₁)
	.4	37.1	5	c	991	d-	991								
	37.2	.3	6	k	000	m	951								
	.4	.5	7	c	992	m	992								
	.6	.7	8	-3	000	c	991								
	38.1	38.2	9	l	990	m	992								
	.3	.4	940	-2	000	c	990								
	.5	39.1	1	l	993	d-	990								
	39.2	.3	2	-2	000	c	085								
	.4	.5	3	d-	085	c	085								
	.6	.7	4	d-	991	-3	000								
	.8	.9	5	c	084	d-	084								
	39.10	39.11	6	c	084	-									
	3A.1	3A.2	7	r	859	q2	856								
	3B.1	3B.2	8	-		b	781								
	3B.3	3B.4	9	c	104	u	953								
			950	00	314	159265			$\pi \cdot 10^{-3}$						
			1	063661		977236			2/ π						
			2	Rprel1		mΔ2-3'			PRELIM 2-3						
P232	3C.1	3C.2	3	33	920	u	920								
			4	-		-									
			5	-		-									
			6	-		-									
			7	-		-									
			8	-		-									
			9	-		-									
			960	-		-									
			1	-		-									
			2	-		-									
			3	-		-									
			4	-		-									
			5	-		-									
			6	-		-									
			7	-		-									
			8	-		-									
			9	-		-									
			970	-		-									
			1	-		-									
			2	-		-									
			3	-		-									
			4	-		-									
			5	-		-									
			6	-		-									
			7	-		-									
			8	-		-									
			9	-		-									

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
s_2	27.1	27.2	010	45	920	34	920								
	28.1	28.2	1	44	920	u	920								
s_{22}	29.1	29.2	2	35	920	35	920								
	.3	.4	3	-	-	-	-								
s_3	30.1	30.2	4	b	072	c	038								
	.3	.4	5	r	043	u	032								
	31.1	31.2	6	l	980	m	981								
	.3	.4	7	a-	070	a-	070								
	.5	.6	8	l	064	c	990								
	.7	.8	9	d-	990	c	981								
	32.1	32.2	020	b	032	k	000								
	.3	.4	1	r	859	q1	856								
	.5	.6	2	-	-	-	-								
s_{31}	33.1	33.2	3	v4	920	b	1/wz								
	.3	.4	4	a	023	a	069								
	34.1	34.2	5	-	-	u	027								
	35.1	35.2	6	b	073	35	920								
s_{33}	36.1	36.2	7	c	023	w	990								
	37.1	37.2	8	b	990	s-	991								
	.3	.4	9	c	990	m	990								
	.5	.6	030	-	-	-	-								
s_4	40.1	40.2	1	b	074	c	038								
s_{41}	41.1	41.2	2	r	030	u	023								
	42.1	42.2	3	w	096	l	104								
	43.1	43.2	4	r	030	u	023								
	44.1	44.2	5	m	097	01	000								
	.3	.4	6	k	000	w	098								
	45.1	45.2	7	r	030	u	023								
	46.1	46.2	8	-	-	-	-								
	47.1	47.2	9	h	038	a	069								
	48.1	48.2	040	c	038	u	037								
s_{42}	49.1	49.2	1	l	982	d-	100								
	.3	.4	2	a-	981	c	981								
	.5	.6	3	-	-	-	-								
i_{11}	110.1	110.2	4	c	991	b	008								
	110.3	111.1	5	c	990	v	990								
	111.2	112.1	6	w4	860	b	1/wz								
	112.2	112.3	7	a	069	a	046								
i_{111}	113.1	113.2	8	c	046	u	020								
	114.1	114.2	9	b	075	56	860								
	.3	.4	050	-	-	u	048								
i_{31}	30.1	30.2	1	m	095	c	990								
	31.1	31.2	2	l	064	d	990								
	32.1	32.2	3	c	997	u	020								
i_{32}	33.1	33.2	4	r	013	u	010								
i_3	34.1	34.2	5	l	992	u	051								
i_{41}	40.1	40.2	6	a	997	a	994								
	41.1	41.2	7	h	994	u	022								
i_{42}	42.1	42.2	8	r	013	u	010								
i_4	43.1	43.2	9	b	997	u	056								
			060	00	001	00	001								
			1	-	-	00	001								
			2	00	001	-	-								
			3	01	000	-	-								
			4	001000	-	-	-								
			5	00	100	-	-								
			6	-	-	01	000								
			7	05	000	-	-								
			8	002500	-	-	-								
			9	001001	00	001	-								

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
P ₂	0.1	1.1	920	50	976	b	979								
	1.2	1.3	1	s-	997	h	991								
	1.4	2.1	2	09	000	a-	074								
	2.2	3.1	3	c	074	b	061								
	3.2	3.3	4	s-	997	09	000								
	4.1	4.2	5	a-	086	c	086								
	5.1	5.2	6	b	785	06	000								
	.3	.4	7	a-	078	c	078								
	.5	.6	8	b	785	a-	784								
	.7	6.1	9	h	990	a-	078								
	6.2	6.3	930	c	078	b	990								
	.4	.5	1	a-	087	c	087								
	7.1	7.2	2	b	990	a-	784								
	.3	.4	3	s-	061	h	990								
	8.1	8.2	4	06	000	a-	079								
	.3	.4	5	c	079	b	990								
	.5	.6	6	a-	061	a-	088								
	.7	9.1	7	c	088	b	990								
	9.2	.3	8	a-	102	a-	784								
	.4	10.1	9	h	990	a-	079								
	10.2	11.1	940	c	079	b	990								
	11.2	.3	1	a-	784	a-	102								
	.4	.5	2	a-	061	h	990								
	.6	.7	3	a-	080	c	080								
	12.1	12.2	4	b	990	a-	784								
	.3	.4	5	a-	102	h	990								
	13.1	13.2	6	06	000	a-	080								
	.3	14.0	7	c	080	l	991								
	14.1	.2	8	p	784	u	973								
	14.9	14.10	9	a-	995	a-	102								
	.11	.12	950	a-	102	h	990								
	15.1	15.2	1	a-	082	c	082								
	16.1	16.2	2	b	990	s-	061								
	.3	.4	3	a-	089	c	089								
	17.1	17.2	4	b	990	a-	102								
	18.1	18.2	5	06	000	u	971								
P ₂₄₀	19.1	19.2	6	b	990	a-	995								
	19.3	20.1	7	h	990	s-	061								
	.2	.3	8	06	000	a-	089								
	20.4	21.1	9	c	089	b	990								
	21.2	21.3	960	a-	784	a-	102								
	.4	22.1	1	h	990	a-	081								
	22.2	22.3	2	c	081	b	990								
	.4	.5	3	06	000	a-	081								
	22.6	23.1	4	c	081	b	990								
	23.2	.3	5	a-	102	h	990								
	.4	.5	6	a-	083	c	083								
	.6	.7	7	b	990	06	000								
	.8	.9	8	a-	083	c	083								
	23.10	23.11	9	l	976	q7	856								
	24.1	24.2	970	33	920	u	920								
	18.3	18.4	1	a-	082	c	082								
	.5	.6	2	-	-	u	956								
	14.3	14.4	3	x	000	s-	785								
	.5	.6	4	c	991	s-	991								
	14.7	14.8	5	-	-	u	949								
			6	Rpreli	m2-4R			PRELIM	2-4						
			7	-	-										
			8	-	-										
			9	-0	000	00	003			-3°					

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
P ₂ ⁵	50.1	50.2	920	y	770	z	910								
	.3	.4	1	b	785	c	900								
	51.1	51.2	2	y	970	z	310								
	.3	.4	3	z	320	z	330								
	.5	.6	4	z	340	z	350								
	.7	.8	5	z	360	z	370								
	.9	.10	6	z	380	z	390								
	.11	.12	7	z	400	z	410								
	.13	.14	8	z	420	z	430								
	.15	.16	9	z	440	z	450								
	.17	.18	930	z	460	z	470								
	.19	.20	1	z	480	z	490								
	.21	.22	2	z	500	z	510								
	.23	.24	3	z	520	z	530								
	.25	.26	4	z	540	z	550								
	.27	.28	5	z	560	z	570								
	.29	.30	6	z	580	z	590								
	.31	.32	7	z	600	z	610								
	.33	.34	8	z	620	z	630								
	.35	.36	9	z	640	z	650								
	51.37	51.38	940	z	660	z	670								
	.39	.40	1	z	680	z	690								
	.41	.42	2	z	700	z	710								
	.43	.44	3	z	720	z	730								
	.45	.46	4	z	740	z	750								
	.47	.48	5	z	760	z	770								
	.49	.50	6	z	780	z	790								
	.51	.52	7	z	800	z	810								
	51.53	51.54	8	z	820	z	830								
	52.1	52.2	9	b	900	a-	995								
	.3	.4	950	a-	995	a-	995								
	.5	.6	1	a-	101	a-	101								
	.7	.8	2	a-	101	a-	101								
	.9	.10	3	a-	102	a-	102								
	.11	.12	4	a-	102	a-	102								
	52.13	52.14	5	h	990	u	960								
P250	53.1	53.2	6	k	000	c	840								M _{53(x)}
	54.1	54.2	7	b	956	a-	965								
	.3	55.1	8	c	956	b	990								
	55.2	.3	9	a-	965	h	990								
	56.1	56.2	960	l	967	t	956								
	57.1	57.2	1	33	130	64	000								
	58.1	58.2	2	b	964	k	000								
	.3	.4	3	r	859	q2	856								
	59.1	59.2	4	33	920	u	920								
			5	-	00 001										
			6	00	001	-									
			7	-	00 840										
			8	-	-										
			9	-	-										
			970	-	-										
			1	-	-										
			2	-	-										
			3	-	-										
			4	-	-										
			5	-	-										
			6	-	-										
			7	-	-										
			8	-	-										
			9	-	-										

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
	60.5	60.6	130	b	093	a-	071								
	.7	.8	1	h	093	c	125								
	.9	.10	2	l	994	u	115								
I ₁	10.1	10.2	3	b	136	s-	061								
	.3	.4	4	c	136	b	138								
	.5	.6	5	s-	061	c	138								
I ₁₁	11.1	11.2	6	-	-	-	-					← C _{11.1}	C _{11.2} →		
	.3	12.1	7	c	990	l	064								
	12.2	.3	8	-	-	-	-					← C _{12.2}	C _{12.3} →		
	13.1	13.2	9	h	993	u	044								
I ₁₂	14.1	14.2	140	r	013	u	010								
	.3	.4	1	-	-	u	136								
I ₇	70.1	70.2	2	l	981	m	994								
	.3	71.1	3	c	990	l	983								
	71.2	.3	4	-	-	-	-					← C _{71.2}	C _{71.3} →		
	.4	71.5	5	c	124	u	305								
	72.2	.3	6	d-	990	s-	991								
	.4	73.1	7	c	997	b	144								
	73.2	.3	8	a-	071	c	144								
	74.1	74.2	9	b	995	u	044								
			150	00	025	-	-	← .00025 →							
I ₉	91.1	91.2	1	s-	096	06	000								
	.3	.4	2	s-	096	s-	060								
	.5	.6	3	s-	060	a-	289								
	.7	92.1	4	c	289	l	981								
	92.2	.3	5	n	997	c	990								
	.4	.5	6	l	064	d-	990								
	.6	93.1	7	c	990	l	095								
	93.2	.3	8	m	996	a-	990								
	.4	.5	9	c	990	l	063								
	.6	.7	160	d-	990	c	996								
	.8	.9	1	b	095	s-	094								
	93.10	93.11	2	a-	095	u	164								
I ₈	80.1	80.2	3	c	996	s-	094								
I ₈₁	81.1	82.1	4	k	000	h	993								
	82.2	.3	5	s-	992	c	990								
	.4	.5	6	m	990	-1	000								
	.6	.7	7	c	990	l	980								
	.8	.9	8	d-	990	a-	996								
	.10	83.1	9	c	982	l	102								
	83.2	83.3	170	b	998	q	020								
I ₂	20.1	20.2	1	b	982	s-	995								
	.3	.4	2	s-	994	l	000								
	.5	.6	3	.1	000	k	000								
	21.1	21.2	4	b	070	t	020								
	22.1	22.2	5	b	127	a-	998								
	.3	23.1	6	c	990	50	990								
	24.1	24.2	7	b	062	t	020								
	25.1	25.2	8	50	127	u	000								
J ₂	3.1	3.2	9	65	000	56	860								
	4.1	5.1	180	34	920	56	860								
	6.1	6.2	1	33	860	u	909								
I ₀	0.1	0.2	2	y	080	z	090								
	.3	.4	3	b	087	c	136								
	.5	.6	4	b	088	c	138								
	.7	.8	5	b	089	c	144								
	.9	.10	6	-	-	u	201								
α ₃	1.1	1.2	7	r	022	u	055								
	2.1	2.2	8	l	067	m	997								
	2.3	2.4	9	c	997	-	-								

CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
P252	5A.1	5A.2	920	b	900	a	101								
	.3	.4	1	a	101	h	990								
	.5	.6	2	a	935	c	935								
	.7	.8	3	b	990	a	101								
	.9	.10	4	a	102	a	996								
	.11	.12	5	a	995	a	995								
	5A.13	5A.14	6	a	941	c	941								
	5B.1	5B.2	7	33	190	35	250								
P253	5C.1	5C.2	8	b	956	c	998								
P254	5D.1	5D.2	9	c	999	l	994								
	5E.1	5E.2	930	b	910	-2	000						$M(\hat{S}_{fl})$		
	.3	.4	1	c	990	d	990								
	.5	.6	2	c	990	b	980								$M(Y_{fl}^0)$
	.7	.8	3	-2	000	c	991								
	5E.9	5E.10	4	d	991	c	991								
P255	5F.1	5F.2	5	b	990	c	000		D_{550}^k						$M(S_{fl,h})$
	.3	.4	6	b	999	a	956								
	.5	.6	7	h	999	-									
	5G.1	5G.2	8	l	880	t	941						$M(H \emptyset)$		
	5H.1	5H.2	9	b	935	a	956								
	.3	.4	940	c	935	u	935								
P256	5J.1	5J.2	1	b	991	c	000		D_{251}^p						$M(IS_{fl})$
	5K.1	5K.2	2	b	998	a	956								
	.3	.4	3	h	998	-									
	5L.1	5L.2	4	l	102	t	952								
	5M.1	5M.2	5	b	930	a	957								
	.3	.4	6	c	930	b	932								
	.5	.6	7	a	956	c	932								
	.7	.8	8	b	938	a	957								
	.9	.10	9	c	938	b	941								
	.11	.12	950	a	956	c	941								
	.13	.14	1	-	-	u	958								
P257	5N.1	5N.2	2	b	954	k	000								
	.3	.4	3	r	859	q2	856								
	5P.1	5P.2	4	b	956	u	960								
	5Q.1	5Q.2	5	35	920	u	229								
			6	-	-	00	001		$\cdot 1^*$						
			7	00	001	-			$\cdot 1$						
P258	5M.15	5M.16	8	b	935	a	956								
	5M.17	5M.18	9	c	935	u	929								
	5P.3	5P.4	960	a	956	c	008								
	.5	.6	1	b	956	u	955								
			2	-	-	-	-								
			3	-	-	-	-								
			4	-	-	-	-								
			5	-	-	-	-								
			6	-	-	-	-								
			7	-	-	-	-								
			8	-	-	-	-								
			9	-	-	-	-								
			970	-	-	-	-								
			1	-	-	-	-								
			2	-	-	-	-								
			3	-	-	-	-								
			4	-	-	-	-								
			5	-	-	-	-								
			6	-	-	-	-								
			7	-	-	-	-								
			8	-	-	-	-								
			9	-	-	-	-								

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
	3.1	3.2	190	r	022	u	059								
	3+.1	3+.2	1	r	022	u	044								
	4.1	4.2	2	r	022	u	142								
	5.1	5.2	3	r	022	u	110								
	6.1	6.2	4	r	022	u	128								
	7.1	8.1	5	l	098	m	094								
	8.2	8.3	6	c	094	m	094								
	.4	.5	7	c	094	u	300								
	8.10	9.1	8	c	095	b	998								
	9.2	9.3	9	s-	061	h	998								
	10.1	10.2	200	k	000	q	224								
α_1	11.1	11.2	1	r	043	u	031								
	12.1	12.2	2	b	096	c	097								
	13.1	13.2	3	r	022	u	133								
	14.1	14.2	4	r	022	u	055								
	15.1	15.2	5	r	022	u	151								
	15+.1	15+.2	6	r	043	u	287								
	16.1	16.2	7	b	982	c	995								
	.3	.4	8	b	997	c	994								
α_2	17.1	17.2	9	r	022	u	110								
	18.1	18.2	210	b	095	s-	094								
	.3	.4	1	c	095	b	992								
	.5	.6	2	f	993	c	993								
	.7	19.1	3	g	992	b	097								
	19.2	19.3	4	s-	061	h	097								
	20.1	20.2	5	k	000	q	187								
	21.1	21.2	6	r	022	u	133								
	22.1	22.2	7	r	022	u	055								
	23.1	23.2	8	r	022	u	059								
	.3	.4	9	-	-	u	209								
	9.1	9.2	220	l	150	c	994								
	9.3	9.4	1	c	992	u	263								
	23.1	23.2	2	b	998	a-	061								
	.3	.4	3	l	102	u	233								
α_4	24.1	24.2	4	r	022	u	163								
	25.1	25.2	5	b	982	-	-								
	26.1	26.2	6	r	022	u	044								
j_0	0.1	0.2	7	b	999	a-	061								
	1.1	1.2	8	l	103	t	179								
j_1	2.1	2.2	9	c	999	-	-								
o_0	0.1	0.2	230	l	078	j	273								
	.3	.4	1	b	079	c	289								
	.5	.6	2	c	996	c	985								
α_3	1.1	1.2	3	h	998	q	182								
	2.1	2.2	4	b	982	c	076								
	.3	.4	5	r	022	u	014								
	3.1	3.2	6	l	098	m	985								
	.3	.4	7	c	985	m	996								
	.5	4.1	8	c	997	c	097								
	4.2	4.3	9	l	981	m	063								
	4.4	4.5	240	h	990	a-	990								
	4.6	5.1	1	c	984	b	987								
	5.2	.3	2	c	986	m	985								
	.4	.5	3	c	987	m	068								
	.6	.7	4	a-	077	c	988								
α_1	.8	.9	5	r	043	u	287								
	6.1	6.2	6	a	997	c	996								
	7.1	7.2	7	l	064	u	298								
	.3	.4	8	-	-	u	294								
	7.9	7.10	9	-1	000	c	990								

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
	8.1	8.2	250	l	998	q	220								
	10.1	10.2	1	l	076	d	990								
	.3	11.1	2	c	076	l	067								
	11.2	11.3	3	m	986	s	062								
	.4	.5	4	s	989	c	990								
	.6	.7	5	m	987	a	062								
	.8	.9	6	c	991	m	996								
	11.10	12.1	7	c	996	l	076								
	12.2	.3	8	m	994	01	000								
	.4	.5	9	c	994	m	990								
	.6	.7	260	c	990	i	063								
	.8	.9	1	d	990	a	991								
	13.1	13.2	2	c	988	l	985								
	14.1	14.2	3	m	980	k	000								
	.3	.4	4	m	996	a	994								
α_2	.5	15.1	5	c	995	b	985								
	15.2	.3	6	a	065	h	022								
	.4	.5	7	-4	000	c	986								
	.6	.7	8	r	013	l	988								
	16.1	16.2	9	d	995	c	994								
	17.1	17.2	270	d	986	u	272								
	.3		1	00R	Δ_0	ut	Δ_0 10								
	.5		2	h	989	f	994								
	.7		3	c	000	g	000						$M(u_{l,h+1})$		$M(v_{l,h+1})$
	.9		4	r	859	q6	856								
	.11		5	r	043	u	287								
	18.1	18.2	6	b	022	l	022								
	.3	.4	7	a	065	c	985								
	19.1	19.2	8	m	994	-2	000								
	.3	.4	9	c	994	m	989								
	19.5	20.1	280	c	989	b	273								
	20.2	20.3	1	a	060	c	273								
	21.1	21.2	2	b	987	a	984								
	.3	.4	3	h	987	s	989								
	21.5	22.1	4	c	988	b	097								
	22.2	.3	5	a	061	h	097								
	.4	.5	6	l	096	u	296								
α_1	24.1	24.2	7	b	289	a	060								
	.3	25.1	8	c	289	l	983								
	25.2	25.3	9	m	000	f	000						$M(s_{f,l,h})$		$M(s_{f,l,h})$
	25.4	25.5	290	c	990	l	064								
	.6	.7	1	g	124	-									
	.8	.9	2	d	990	a	124								
	26.1	26.2	3	c	990	u	302								
	25.10	25.11	4	r	013	u	010								
	.12	.13	5	l	983	u	289								
	22.6	22.7	6	-		q	222								
	.8	.9	7	b	988	u	262								
	7.5	7.6	8	d	987	c	987								
	7.7	7.8	9	b	982	u	249								
	8.6	8.7	300	m	095	f	997								
	8.8	8.9	1	g	994	u	198								
	26.3	26.4	2	l	063	d	990								
	27.1	27.2	3	h	996	u	043								
	26.5	26.6	4	-		u	294								
	71.6	71.7	5	l	064	g	991								
	.8	.9	6	d	124	a	991								
	.10	.11	7	c	991	l	065								
	71.12	71.13	8	-		u	146								
			9	-		-									

Block #94

Block #94

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
	107.1	107.2	920	b	999	-2	000								
	.3	.4	1	c	992	l	991								
	.5	.6	2	d-	992	c	998								
S ₁₁	110.1	110.2	3	b	896	h	990								
	111.1	111.2	4	-		-									
	112.1	112.2	5	k	000	50	998								
	.3	.4	6	r	859	q3	856								
	113.1	113.2	7	b	900	c	939								
	.3	.4	8	b	901	c	936								
	114.1	114.2	9	b	998	s	895								
S ₁₁₀	115.1	115.2	930	l	000	.1	000								
	116.1	116.2	1	l	990	t	941								
	117.1	117.2	2	b	991	c	990								
	118.1	118.2	3	b	939	a	061								
	.3	119.1	4	c	939	b	936								
	119.2	119.3	5	a	069	c	936								
	11A.1	11A.2	6	-		-									
	119.4	119.5	7	50	907	u	966								
S ₁₁₁	11B.1	11B.2	8	-1	000	c	993								
	11C.1	11C.2	9	-		-									
	.3	.4	940	s	993	u	930								
S ₁₃	130.1	130.2	1	b	998	h	985								
	131.1	131.2	2	k	000	66	000								
	.3	.4	3	r	859	q4	856								
	132.1	133.1	4	54	860	b	902								
	133.2	.3	5	c	962	b	903								
	.4	.5	6	r	960	u	957								
	134.1	134.2	7	b	061	44	920								
	.3	.4	8	a-	061	c	008								
	135.1	135.2	9	b	904	c	962								
	.3	.4	950	b	905	-									
	.5	.6	1	r	960	u	957								
	136.1	137.1	2	35	860	b	073								
	137.2	.3	3	c	023	b	075								
	.4	138.1	4	c	046	b	061								
	138.2	.3	5	-		-									
	.4	.5	6	35	920	u	229								
S ₁₅	150.1	150.2	7	a	060	c	964								
	151.1	151.2	8	b	962	a	069								
	152.1	152.2	9	c	962	u	961								
	151.3	151.4	960	-		-									
S ₅₀	153.1	153.2	1	l	999	-									
	154.1	154.2	2	-		-									
	155.1	155.2	3	c	990	d-	990								
	.3	.4	4	-		-									
	156.1	156.2	5	b	964	u	957								
S ₁₂	120.1	121.1	6	50	104	l	897								
	122.1	122.2	7	b	063	s-	998								
	.3	.4	8	h	992	.1	000								
	.5	.6	9	.1	000	t	972								
	123.1	123.2	970	33	920	33	920								
	124.1	124.2	1	33	920	u	920								
S ₁₄	140.1	140.2	2	b	104	s-	893								
	.3	.4	3	k	000	m	992								
	.5	.6	4	c	992	b	998								
	.7	.8	5	s	894	k	000								
	.9	.10	6	d-	992	a-	104								
	141.1	141.2	7	f	104	g	893								
	142.1	143.1	8	c	104	b	998								
	143.2	143.3	9	c	894	u	941								

CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
			920	33	010	u	010								
			1	R	Δ xx	Δ xx	'T		C ₁						
			2	00	001	-			C ₂						
			3	RR	rAS	l	Δ xx Δ		C ₃						
			4	Lc	Δ 1''	'''U''			C ₄						
			5	Δ L	f Δ 1	U'''''			C ₅						
			6	RR	Δ '	l	Δ Δ hTA		C ₆						
			7	Δ Δ	ASs	fT''''			C ₇						
			8	' Δ Δ Δ Δ	S	S	SeR		C ₈						
			9	TL	j Δ 1 Δ	U''	RR Δ		C ₉						
			930	Δ	lWhT	Δ Δ Δ Δ	S		C ₁₀						
			1	4T	Δ Δ Δ	Δ L	4TU		C ₁₁						
			2	Δ Δ Δ Δ	S	eoT	Δ Δ		C ₁₂						
			3	Δ Δ	SeiR	''''''			C ₁₃						
			4	wrong	Δ	''date			C ₁₄						
			5	''''''	''''''	''''''			C ₁₅						
			6	001	001	-			C ₁₆						
			7	h4	190	-			C ₁₇						
			8	-		00	301		C ₁₈						
			9	R	tape Δ	7	Δ fu Δ ll		C ₁₉						
			940	111111	11	011			C ₂₀						
			1	-		00	001		C ₂₁						
			2	10	000	-			C ₂₂						
			3	111100	111111				C ₂₃						
			4	111111	10	111			C ₂₄						
			5	077000	-				LC ₁						
			6	P	P'''	''''''			C ₂₆						
			7	R'R'R'	R'R'R'				C ₂₇						
			8	Rend Δ Δ	Δ Δ bc Δ Δ				C ₂₈						
3.3	3.4		9	r	975	u	136								
4.1	4.2		950	b	932	-									
.3	.4		1	r	975	u	136								
5.1	5.2		2	b	933	-									
.3	.4		3	r	975	u	136								
.5	.6		4	-		u	976								
36.1	36.2		5	50	934	-									
36.3	.4		6	90	000	u	856								
.5	.6		7	e	933	u	104								
			8	R'R'BR	R'R'				C ₃₈						
			9	PPPPPP	PPPPPP				C ₃₉						
21.1	21.2		960	e	933	u	092								
			1	-		00	274		C ₄₁						
			2	-		01	000		C ₄₂						
			3	T	page Δ	00T'''			PW ₁						
			4	-		u	064		C ₄₄						
			5	''''''	''''''	R			C ₄₅						
			6	006000	-				C ₄₆						
			7	v4	250	w	990		C ₄₇						
			8	002002	-				C ₄₈						
			9	111111	101111				C ₄₉						
			970	-	-	-			C ₅₀ = $(\pi/2)^2 \times 10^{-5}$						
			1	-	-	-			C ₅₁ = N°						
			2	-	-	-			C ₅₂ = L°						
			3	-	-	-			C ₅₃ = P°						
			4	-	-	-			C ₅₄ = cm						
			5	-	-	-							E ₁		
			6	-	-	-							E ₂		
			7	-	-	-							E ₃		
			8	-	-	-							LC		
			9	-	-	-									

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
	1.3	1.4	010	50	908	66	000								
	1.5	1.6	1	y	100	z	970								
	1.7	1.8	2	33	070	36	130								
	2.1	3.1	3	-		l	961								
	3.2	3.3	4	b	009	t	016								
	4.1	4.2	5	50	099	u	020								
	5.1	5.2	6	b	959	c	190								
	6.1	7.1	7	77	190	50	939								
	7.2	8.1	8	c	009	87	000								
	8.2	8.3	9	90	000	u	015								
E ₅	0.1	0.2	020	b	892	c	038								
	0.3	0.4	1	b	891	c	046								
	0.5	.6	2	b	026	a-	972								
	.7	.8	3	c	026	b	055								
	.9	.10	4	a-	972	c	055								
	1.1	1.2	5	b	972	c	997								
	.3	.4	6	-		b	879								M(H _L)
	.5	2.1	7	c	992	l	007								
	2.2	2.3	8	r	977	q	955								
	3.1	3.2	9	r	976	u	152								
e ₅₂	3.3	3.4	030	r	976	u	162								
	.5	.6	1	r	975	u	133								
	4.1	4.2	2	b	997	06	000								
	.3	.4	3	f	943	e	921								
	.5	.6	4	c	921	b	992								
	.7	.8	5	03	000	f	944								
	.9	.10	6	e	921	-									
	.11	.12	7	r	975	u	136								
	5.1	5.2	8	b	000	il	000						M(S _{l, n})		
	.3	.4	9	f	941	e	921								
e ₅₁	.5	.6	040	r	975	u	136								
	6.1	6.2	1	l	992	q	046								
	7.1	7.2	2	b	992	s-	941								
	8.1	8.2	3	c	992	b	038								
	.3	.4	4	s-	922	c	038								
	.5	.6	5	-		u	031								
	9.1	9.2	6	b	000	il	000						M(S _{l, n})		
	.3	.4	7	e	933	-									
	.5	.6	8	r	975	u	136								
	10.1	10.2	9	b	997	s-	941								
e ₅₃	.3	.4	050	h	997	k	000								
	.5	.6	1	-		q	057								
	11.1	11.2	2	b	055	s-	941								
	.3	.4	3	c	055	b	046								
	.5	.6	4	s-	922	c	046								
	12.1	12.2	5	-		b	879								M(H _l)
	.3	.4	6	-		u	043								
	13.1	13.2	7	b	973	c	999								
	.3	.4	8	r	975	u	131								
	14.1	14.2	9	b	026	h	061								
e ₅₈	.3	.4	060	c	099	f	972								
	.5	.6	1	-		-								B	M(H _l)
	.7	.8	2	g	997	c	992								
	.9	.10	3	r	976	u	144								
	.11	.12	4	r	976	u	152								
	.13	.14	5	r	976	u	182								
	15.1	15.2	6	b	964	c	977								
	.3	.4	7	r	975	u	133								
	.5	.6	8	b	992	s-	941								
	15.7	15.8	9	c	992	-									

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
	15.9	15.10	070	r	975	u	121								
	16.1	16.2	1	b	997	06	000								
	.3	.4	2	f	943	e	921								
	.5	.6	3	c	921	b	992								
	.7	.8	4	03	000	f	944								
	.9	.10	5	e	921	-									
	.11	.12	6	r	975	u	136								
	17.1	17.2	7	l	992	q	082								
	.3	.4	8	b	990	j1	000								
	.5	.6	9	f	941	e	933								
	.7	.8	080	r	975	u	136								
	.9	.10	1	-		u	066								
e55	18.1	18.2	2	b	990	j1	000								
	.3	.4	3	f	941	e	921								
	.5	.6	4	r	975	u	136								
	.7	.8	5	r	975	u	121								
	19.1	19.2	6	b	990	j1	000								
	.3	.4	7	f	941	e	921								
	.5	.6	8	r	975	u	136								
	.7	.8	9	r	975	u	121								
	20.1	20.2	090	k	000	b	990								
	.3	.4	1	f	942	t	960								
	21.3	21.4	2	-		-									
	.5	.6	3	f	941	e	921								
	.7	.8	4	r	975	u	136								
e56	22.1	22.2	5	k	000	h	997								
	.3	.4	6	s-	941	q	101								
	24.1	25.1	7	c	997	b	099								
	25.2	.3	8	s-	941	c	099								
	26.1	26.2	9	edit	r	outline									
	.3	.4	100	c	992	u	066								
e57	.5	.6	1	r	975	u	121								
	27.1	27.2	2	k	000	b	990								
	.3	.4	3	f	942	t	957								
			4	-		-									
			5	r	975	u	136								
	29.1	29.2	6	l	941	b	999								
	.3	.4	7	-		q	110								
	30.1	30.2	8	a-	941	c	999								
	.3	.4	9	-		u	059								
			110	r	976	u	144								
	31.1	31.2	1	b	946	50	948								
	31.3	31.4	2	r	975	u	136								
	32.1	32.2	3	b	136	a	936								
	33.1	33.2	4	b	935	u	112								
	34.1	34.2	5	l	935	j	249								
	.3	.4	6	77	190	50	009								
	.5	.6	7	33	200	30	200								
	35.1	35.2	8	66	000	u	200								
	.3	.4	9	33	860	33	860								
	.5	.6	120	33	920	u	920								
E4	1.1	1.2	1	-		-						V40 + i	250 + i	W	990
e40	5.1	5.2	2	l	990	b	008								
	.3	.4	3	f	969	q	128								
	6.1	6.2	4	s-	990	04	000								
	.3	.4	5	e	126	c	126								
	7.1	7.2	6	b	991	-x	000								
	9.1	9.2	7	c	990	u	129								
	8.1	8.2	8	b	991	u	127								
e42	2.1	2.2	9	b	121	a	968								

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
E ₄₁	2.3	2.4	130	c	121	u	975								
	3.1	3.2	1	h	967	c	121								
	4.1	4.2	2	36	250	u	975								
E ₆	1.1	1.2	3	b	978	a	936								
	2.1	2.2	4	c	978	u	975								
	1.3	1.4	5	-		u	977								
E ₇	1.1	1.2	6	h4	190	-						40 + i	x _i		
	2.1	2.2	7	b	136	a	936								
	3.1	3.2	8	c	136	u	975								
	4.1	5.1	9	77	190	l	938								
	5.2	.3	140	b	009	a-	941								
	.4	.5	1	h	009	q	143								
	6.1	6.2	2	b	937	u	138								
	7.1	7.2	3	90	000	u	856								
	1.1	1.2	4	r	975	-									
E ₈	.3	.4	5	b	978	a	966								
	3.1	3.2	6	c	978	u	150								
	2.1	2.2	7	b	978	a	936								
	4.1	4.2	8	c	978	u	151								
	2.3	2.4	9	-		u	976								
	5.1	5.2	150	b	947	u	136								
	6.1	6.2	1	b	965	u	136								
	1.1	1.2	2	b	958	-									
	1.3	1.4	3	r	975	u	136								
	2.1	2.2	4	b	890	-									
	2.3	2.4	5	r	975	u	136								
	3.1	3.2	6	b	963	a-	962								
	.3	.4	7	h	963	-									
	.5	.6	8	r	975	u	136								
	4.1	4.2	9	b	007	-									
	4.3	4.4	160	r	975	u	136								
	.5	.6	1	-		u	976								
	1.1	1.2	2	b	008	02	000								
E ₉	.3	.4	3	f	940	e	923								
	.5	.6	4	r	975	u	136								
	2.1	2.2	5	b	924	-									
	.3	.4	6	r	975	u	136								
	3.1	4.1	7	b	974	f	942								
	4.2	4.3	8	e	933	-									
	4.4	.5	9	r	975	u	136								
	5.1	5.2	170	b	925	-									
	.3	.4	1	r	975	u	136								
e ₉₁	6.1	7.1	2	b	998	e	933								
	7.2	7.3	3	r	975	u	136								
	8.1	8.2	4	b	926	-									
	.3	.4	5	r	975	u	136								
	9.1	9.2	6	b	927	-									
	.3	.4	7	r	975	u	136								
	10.1	10.2	8	b	945	c	978								
	.3	.4	9	b	928	-									
	.5	.6	180	r	975	u	136								
E ₁₁	.7	.8	1	-		u	976								
	1.1	1.2	2	b	999	03	000								
	.3	.4	3	f	944	e	929								
	.5	.6	4	r	975	u	136								
	2.1	2.2	5	b	189	c	978								
	.3	.4	6	b	930	-									
	.5	.6	7	r	975	u	136								
	3.1	3.2	8	b	931	u	949								
			9	075000	-										

Block #99

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
C ₁	10.1	11.1	200	23	000	43	860								
	11.2	.3	1	43	860	43	860								
	.4	.5	2	43	860	43	860								
	.6	.7	3	43	860	43	860								
	.8	.9	4	43	860	43	860								
	.10	.11	5	43	860	43	860								
	.12	.13	6	43	860	43	860								
	.14	.15	7	43	860	43	860								
	.16	.17	8	43	860	43	860								
	11.18	11.19	9	43	860	43	860								
	.20	.21	210	43	860	43	860								
	.22	.23	1	43	860	43	860								
	12.1	12.2	2	33	860	33	860								
	13.1	13.2	3	33	920	b	220								
	.3	.4	4	k	000	q9	220								
	13.5	13.6	5	-		u	920								
			6	-		-									
			7	-		-									
			8	-		-									
			9	-		-									
C ₂	20.1	21.1	220	50	973	10	842								
	22.1	22.2	1	b	842	b	973								
	22.3	22.4	2	-		t	225								
	23.1	23.2	3	b	973	q	920								
	24.1	24.2	4	33	920	u	223								
	25.1	26.1	5	43	920	43	920								
	27.1	27.2	6	b	973	q	228								
	28.1	28.2	7	43	920	u	226								
	29.1	29.2	8	33	920	33	920								
	29.3	29.4	9	33	920	u	920								
			230	-		-									
			1	-		-									
			2	-		-									
			3	-		-									
			4	-		-									
			5	-		-									
			6	-		-									
			7	-		-									
			8	-		-									
			9	-		-									
			240	-		-									
			1	-		-									
			2	-		-									
			3	-		-									
			4	-		-									
			5	-		-									
			6	-		-									
			7	-		-									
			8	-		-									
			9	-		-									
			250	-		-									
			1	-		-									
			2	-		-									
			3	-		-									
			4	-		-									
			5	-		-									
			6	-		-									
			7	-		-									
			8	-		-									
			9	-		-									

CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
P1.10	31.1	31.2	860	b	899	a	501								
	.3	.4	1	c	899	b	884								
	.5	.6	2	a	501	c	884								
	.7	.8	3	b	891	a	501								
	31.9	31.10	4	c	891	u	872								
P1.11	32.1	33.1	5	50	911	10	008								
	34.1	35.1	6	50	010	l	008								
	35.2	35.3	7	b	010	q	922								
	36.1	36.2	8	50	912	u	870								
	37.1	37.2	9	-		u	905								
	38.1	38.2	870	90	000	b	913								
	.3	.4	1	c	868	u	865								
P1.16	39.1	39.2	2	b	010	50	010								
	.3	.4	3	.3	000	3	000								
	39.5	40.1	4	c	010	12	000								
	41.1	42.1	5	32	510	b	010								
	42.2	.3	6	l	510	q	878								
	.4	.5	7	-		u	875								
	43.1	43.2	8	42	510	42	510								
	.3	44.1	9	30	510	13	000								
	45.1	45.2	880	l	017	d-	037		M(H ₁)		M(b ₁)				
	.3		1	c	047	-			M(Δ ₁)						
	46.1	46.2	2	b	899	a	914								
	47.1	47.2	3	c	899	u	896								
P1.14	50.1	50.2	4	b990	37	c	830					xx	M(b ₂)		829 + l
	51.1	51.2	5	b	884	a	914								
	52.1	52.2	6	c	884	u	884								
	53.1	53.2	7	b	015	c	010								
	.3	.4	8	b	014	a	971								
	.5	.6	9	a	971	a	971								
	53.7	53.8	890	a	971	c	015								
	54.1	54.2	1	b990	17	.9	000					xx	M(H ₂)		
	.3	.4	2	c	017	-							M(H ₂)		
	55.1	55.2	3	b	891	a	976								
	56.1	56.2	4	c	891	u	903								
	55.3	55.4	5	-		u	250								
	48.1	48.2	6	b	900	a	972								
	.3	.4	7	c	900	b	901								
	48.5	48.6	8	a	971	c	901								
	49.1	49.2	9	b990	17	b	037					xx	M(H ₂)		M(b ₂)
	.3	.4	100	s	036	c	500						M(b ₂₋₁)		
	.5	.6	1	d-	500	c	047								M(Δ ₂)
	49.7	49.8	2	-		u	882								
	56.3	56.4	3	b	892	a	972								
	.5	.6	4	c	892	u	891								
P1.12	57.1	57.2	5	61	000	11	000								
P1.17	58.1	59.1	6	31	010	l	008								
	59.2	.3	7	b	010	q	909								
	.4	59.5	8	-		u	906								
	60.1	60.2	9	41	510	40	510								
	.3	.4	910	-		u	922								
			1	RwhatΔ	probΔΔ										
			2	Rwrong	ΔprobΔ										
			3	-	q8	919									
			4	001001	00	001									
	15.12	15.13	5	x	000	s	971								
	.14	.15	6	c	502	s	502								
	.16	.17	7	08	000	u	265								
P1.15	2.2	2.3	8	30	010	u	865								
P1.18	3A.1	3A.2	9	11	000	u	906								

Block #101

326

CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
P1	0.1	1.1	920	31	250	50	977								
	1.2	2.1	1	10	010	u	918								
p1.13	3.1	3.2	2	b	971	s	012								
	.3	.4	3	09	000	h	501								
	.5	.6	4	a	251	c	251								
	.7	.8	5	b	255	a	501								
	3.9	3.10	6	c	255	u	860								
	16.10	16.11	7	k	000	p	971								
	.12	.13	8	x	000	h	502								
	.14	.15	9	a	294	c	294								
	.16	.17	930	b	295	a	502								
	16.18	16.19	1	c	295	u	978								
	16.24	16.25	2	c	387	b	502								
	.26	.27	3	;6	000	a	390								
	.28	.29	4	c	390	g	502								
	.30	.31	5	b	296	a	502								
	.32	.33	6	c	296	b	297								
	16.34	16.35	7	a	502	c	297								
	17.1	18.1	8	31	430	b	011								
	18.2	18.3	9	a	012	k	000								
	.4	.5	940	p	013	x	000								
	.6	.7	1	k	000	b	974								
	18.8	18.9	2	-	-	t	960								
	19.1	19.2	3	a	975	t	961								
	20.1	20.2	4	a	975	t	956								
	.3	.4	5	r	959	u	958								
	21.1	22.1	6	31	190	b	277								
	22.2	22.3	7	c	503	v	278								
	22.4	23.1	8	w	504	30	860								
	24.1	24.2	9	y	860	z	250								
	.3	.4	950	y	870	z	260								
	.5	.6	1	y	880	z	270								
	25.1	25.2	2	b	503	c	277								
	.3	.4	3	v	504	w	278								
P1.9	26.1	26.2	4	13	000	-	-								
	26.3	26.4	5	30	860	u	300								
P1.7	27.1	27.2	6	r	959	t	958								
	.3	.4	7	30	190	u	954								
P1.8	28.1	28.2	8	31	070	31	130								
	.3	.4	9	-	-	-	-								
P1.5	29.1	29.2	960	30	070	u	954								
p1.6	30.1	30.2	1	31	070	30	130								
	.3	.4	2	-	-	u	954								
	7.3	7.4	3	b	965	a-	971								
	7.5	7.6	4	a-	972	c	965								
	8.1	8.2	5	l	047	b	046								
	8.3	8.4	6	h	500	a	250								
	9.1	9.2	7	d-	500	u	251								
	13.3	13.4	8	b	256	a	972								
	13.5	13.6	9	c	256	u	255								
			970	099999	999999										
			1	-	-	00	001								
			2	00	001	-	-								
			3	-	reΔ027										
			4	-	00	054									
			5	-	00	060									
			6	001001	-										
			7	BRtype	ΔtimeR										
	16.20	16.21	8	b	502	;6	000								
	16.22	16.23	979	a	387	u	932								

Block #102

327

CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
P1.0	4.1	4.2	250	b	972	04	000						$(\Delta \ell_{-1})$		
P1.1	5.1	5.2	1	c	99037	-						xx	$M(\Delta \ell)$		
	6.1	6.2	2	b	251	a	976								
	7.1	7.2	3	c	251	u	963								
P1.2	10.1	10.2	4	33	310	-									
P1.3	11.1	11.2	5	899047	m	047						xx	$M(\Delta \ell)$		$M(\Delta \ell)$
	11.3	12.1	6	c	047	b	255						$M(\Delta \ell)$		
	12.2	12.3	7	a	971	a	976								
	13.1	13.2	8	c	255	u	968								
P1.4	14.1	15.1	9	33	370	b	501								
	15.2	.3	260	a	286	c	286								
	.4	.5	1	s	014	09	000								
	.6		2	a	284	c	284								
	.8		3	l	014	p	012								
	15.10	15.11	4	x	000	u	915								
	15.18	15.19	5	a	296	c	296								
	.20	.21	6	b	015	s	971								
	.22	.23	7	h	014	k	000								
	.24	.25	8	p	012	x	000								
	.26	.27	9	x	000	h	502								
	.28	.29	270	a	285	c	285								
	.30	15.31	1	b	286	a	502								
	15.32	16.1	2	c	286	s	016								
	16.2	.3	3	s	012	09	000								
	.4	.5	4	a	501	a	294								
	.6	.7	5	c	294	b	012								
	16.8	16.9	6	a	012	u	927								
			7	Rxsec	Δ	calc	Δ		P0.1						
			8	starti	ng	''''			P0.2						
			9	ending		''''			P0.3						
			280	Rxsec	Δ	err	Δ		P4.1						
			1	z	91650	z	740		D1.1						
			2	a-	630	h	630		D1.2						
			3	c	631	b	366		D1.3						
			4	a	97630	a	631		D1.4			-G			
			5	k	000	s	630		D1.5						+2(3+GL)
			6	b	99500	s	631		D1.6						+2(3+GL)
			7	l	499	m	077		D3.1			-L+1			
			8	-		-			D3.2						
			9	-		-			D3.3						
			290	-		-			D4.1						
			1	-		-			D4.2						
			2	-		-			D4.3						
			3	y	4 510	z	500		D2.1						
			4	899473	d	630			D5.1			-4L+1			+2L
			5	-	c	630			D5.2						+2L
			6	099900	d	630			D5.3			-2GL+1			+6L
			7	-	c	630			D5.4						+6L
			8	b	630	l	631		D6.1						
			9	w	4 570	-			D7.1						
X0	0.1	0.2	300	50	277	50	278								
	1.1	1.2	1	12	000	32	510								
	2.1	2.2	2	c	495	c	495								
X0.1	3.1	3.2	3	b	495	l	010								
	3.3	3.4	4	-		q	324								
X1	10.1	10.2	5	a	467	c	495								
	11.1	11.2	6	b	384	a	467								
	11.3	12.1	7	c	384	b	281								
	12.2	13.1	8	c	313	c	630								
	13.2	14.1	309	c	631	v	630								

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
	14.2	14.3	310	w	632	w	634								
	14.4	14.5	1	w	636	w	638								
	15.1	15.2	2	y	630	z	640								
x _{1.1}	16.1	16.2	3	-	-	-	-								
	17.1	17.2	4	b	313	a	478								
x _{1.3}	18.1	18.2	5	c	313	u	313								
x _{1.2}	19.1	19.2	6	v	282	w	288								
	1A.1	1A.2	7	v	284	w	290								
	.3	.4	8	b	286	c	292								
x _{0.2}	4.1	4.2	9	a	467	h	494								
	5.1	5.2	320	l	015	t	330								
	.3	.4	1	r	449	u	334								
			2	r	449	u	339								
	9.1	9.2	3	b	494	u	319								
x _{0.3}	6.1	6.2	4	55	570	55	570								
	.3	.4	5	62	000	65	000								
	7.1	7.2	6	50	277	50	279								
P ₂	8.1	8.2	7	33	920	31	920								
	8.3	8.4	8	50	979	b	016								
	8.5	8.6	9	-6	000	u	479								
x _{0.4}			330	r	449	u	421								
			1	r	449	u	450								
			2	r	449	u	377								
			3	-	-	u	303								
x ₂	20.1	20.2	4	y5	520	z	500								
	21.1	21.2	5	b	334	a	476								
	22.1	22.2	6	c	334	u	449								
	23.1	23.2	7	b	293	32	510								
	.3	.4	8	-	-	u	336								
x ₃	30.1	30.2	9	b	287	c	351								
x _{3.1}	31.1	31.2	340	a	467	c	496								
	.3	.4	1	b	467	c	497								
	32.1	32.2	2	b	288	h	352								
	.3	.4	3	h	367	a	469								
	.5	.6	4	c	354	b	289								
	32.7	33.1	5	c	368	b	351								
	33.2	.3	6	a	468	h	351								
	.4	.5	7	h	366	a-	467								
	33.6	33.7	8	c	353	-	-								
x _{3.2}	34.1	34.2	9	l	011	b	497								
	.3	.4	350	-	-	t	366								
	35.1	35.2	1	-	-	-	-								
	.3	.4	2	-	-	-	-								
	.5	.6	3	-	-	-	-								
	35.7	35.8	4	-	-	-	-								
	36.1	36.2	5	b	353	a	467								
x _{3.4}	37.1	37.2	6	h	351	h	366								
	.3	.4	7	a	467	c	353								
	38.1	38.2	8	b	354	a	469								
	.3	.4	9	h	352	h	367								
	.5	.6	360	a	469	c	354								
	.7	.8	1	b	368	a	480								
	38.9	39.1	2	c	368	l	012								
	39.2	39.3	3	b	497	q	370								
	3A.1	3A.2	4	a	467	c	497								
	.3	.4	5	-	-	u	349								
x _{3.3}	3B.1	3B.2	6	-	-	-	-								
	.3	.4	7	-	-	-	-								
	3B.5	3C.1	8	-	-	-	-								
	3C.2	3C.3	369	a	467	u	356								

Block #104

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
x3.5	3D.1	3D.2	370	l	013	b	496								
	.3	.4	1	-		q	373								
	.5	.6	2	-		u	340								
x3.6	3E.1	3E.2	3	b	288	a	016								
	.3	.4	4	c	288	b	016								
	.5	.6	5	;	6 000	a	289								
	3E.7	3E.8	6	c	289	u	449								
x6	60.1	60.2	7	b	485	c	499								
x6.1	61.1	61.2	8	b	467	c	497								
x6.2	62.1	62.2	9	-		b	298								
	.3	.4	380	c	394	u	860								
	63.1	63.2	1	b	017	l	027						M(H ℓ)		M(s ℓ)
	.3	.4	2	c	500	x	000								
	.5	.6	3	r	420	u	443								
	64.1	64.2	4	b	037	l	056						M($\frac{\Delta \ell - 1}{\Delta \ell}$)		M(β ,)
	.3	.4	5	c	500	x	000								
	.5	.6	6	r	420	u	443								
	65.1	65.2	7	l	630	m	047						M(30 $\frac{F}{Tr}$)		M($\Delta \frac{3}{2}$)
	.3	.4	8	c	500	l	473								
	.5	.6	9	d-	500	c	500								
	65.7	.8	390	l	631	m	047						M(30 $\frac{P}{Tr}$)		M($\Delta \frac{2}{2}$)
	.9	.10	1	c	501	l	473								
	.11	.12	2	d-	501	-									
	.13	.14	3	r	420	u	443								
x6.4	66.1	66.2	4	-		-									
	.3	.4	5	c	500	x	000								
	.5	.6	6	r	420	u	443								
x6.3	67.1	67.2	7	l	499	b	498								
	.3	.4	8	a	467	q	402								
	68.1	68.2	9	-		c	498								
	.3	.4	400	b	394	a	016								
	.5	.6	1	c	394	u	394								
x6.5	69.1	69.2	2	l	012	b	497								
	.3	.4	3	a	467	t	413								
	6A.1	6A.2	4	c	497	b	298								
	.3	.4	5	a	471	c	298								
	.5	.6	6	b	381	a	469								
	.7	.8	7	c	381	b	384								
	.9	.10	8	a	472	s	469								
	.11	.12	9	c	384	b	387								
	.13	.14	410	a	472	c	387								
	.15	.16	1	b	390	a	472								
	6A.17	6A.18	2	c	390	u	379								
x6.6	6B.1	6B.2	3	k	000	-									
	.3	.4	4	-		s	471								
	.5	.6	5	c	471	s	469								
	.7	.8	6	c	469	s	472								
	6B.9	6C.1	7	c	472	l	499								
	6C.2	6C.3	8	b	014	q	449								
	6D.1	6D.2	9	c	499	u	378								
			420	-		-							RECORDER (X γ)		
x4	40.1	40.2	1	v	290	w	423								
	.3	.4	2	b	292	c	428								
	41.1	41.2	3	-		-									
x4.1	42.1	42.2	4	-		-									
	42.3	43.1	5	c	500	b	424								
	43.2	43.3	6	a	016	a	474								
	44.1	44.2	7	c	424	u	434								
	45.1	45.2	8	-		-									
	.3	.4	429	h	500	;	1 000								

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
	45.5	45.6	430	.3	000	q	435								
	46.1	46.2	1	50	280	50	500								
	.3	.4	2	50	495	90	000								
	.5	.6	3	90	000	u	433								
	44.3	44.4	4	b	500	u	424								
x4.2	47.1	47.2	5	b	292	a	470								
	.3	.4	6	a	474	-									
	48.1	48.2	7	c	292	u	439								
	49.1	49.2	8	-		u	449								
	48.3	48.4	9	b	291	a	470								
	.5	.6	440	c	291	b	290								
	.7	.8	1	a	471	c	290								
	48.9	48.10	2	-		u	421								
x7	70.1	70.2	3	c	501	v	500								
	71.1	71.2	4	w	570	-									
	72.1	72.2	5	b	444	a	477								
	73.1	73.2	6	c	444	u	420								
	74.1	74.2	7	b	299	55	570								
	74.3	74.4	8	-		u	446								
			9	-		-									
x5	50.1	50.2	450	v	294	w	452								
	.3	.4	1	v	296	w	482								
x5.1	51.1	51.2	2	-		-									
	.3	.4	3	-		-									
	52.1	52.2	4	b	452	a	474								
	53.1	53.2	5	a	467	u	461								
	52.3	52.4	6	-		u	481								
			7	-		-									
	55.1	55.2	8	b	482	a	475								
	56.1	56.2	9	a	467	u	464								
	55.3	55.4	460	-		u	449								
	53.3	53.4	1	c	452	b	453								
	.5	.6	2	a	467	c	453								
	53.7	53.8	3	-		u	452								
	56.3	56.4	4	c	482	b	483								
	.5	.6	5	a	467	c	483								
	56.7	56.8	6	-		u	481								
			7	-		00	001								
			8	00	001	-									
			9	00	001	00	001								
			470	-		00	002								
			1	00	002	00	002								
			2	00	002	00	001								
			3	01	000	-									
			4	001000	-										
			5	00	100	-									
			6	01	010	-									
			7	002002	-										
			8	001010	00	010									
	8.7	8.8	9	c	016	u	920								
			480	00	002	-									
x5.2		54.0	1	-		l	475								
	54.1	54.2	2	-		-									
	.3	.4	3	-		-									
	54.5	54.6	4	-		u	458								
			5	-		00	003								
			6	-		-									
			7	-		-									
			8	-		-									
			9	-		-									

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
x6.0	6B.1	6B.2	860	b	381	h	869								
	.3	.4	1	a-	874	c	862								
	6C.1	6C.2	2	-	-	-	-						C _{6C.1}	C _{6C.2}	
	6D.1	6D.2	3	c	500	j	501								
	6E.1	6E.2	4	b	381	l	875								
	.3	.4	5	-	-	t	867								
	6F.1	6F.2	6	c	500	c	500								
	6G.1	6G.2	7	b	501	a-	500								
	.3	.4	8	c	501	-	-								
	6H.1	6H.2	9	-	-	-	-						C _{6H.1}	C _{6H.2}	
	6I.1	6I.2	870	09	000	k	000								
	6J.1	6J.2	1	d-	501	-	-								
	.3	.4	2	r	420	u	443								
	6K.1	6K.2	3	-	-	u	381								
			4	00	812	00	803		K						
			5	b	017	l	027		DUMMY						
P214			6	b	932	c	880								
			7	b	935	c	892								
			8	b	945	a-	896								
			9	c	896	u	906								
	1G.1	1G.2	880	-	-	-	-						C _{1G.1}	C _{1G.2}	
	.3	.4	1	h	990	g	991								
	1H.1	1H.2	2	a-	991	c	995								
	1I.1	1I.2	3	-	-	b	016								M ₁₁ (H.)
	.3	.4	4	09	000	k	000								
	.5	.6	5	d-	995	k	000								
	.7	.8	6	m	902	h	995								
	1J.1	1J.2	7	a-	990	h	992								
	1K.1	1K.2	8	a-	995	k	000								
	1L.1	1L.2	9	m	992	k	000								
	.3	.4	890	m	990	u	903								
	1P.1	1P.2	1	a-	992	k	000								
	1Q.1	1Q.2	2	-	-	-	-						C _{1Q.1}	C _{1Q.2}	
	1R.1	1R.2	3	l	993	m	993								
	.3	.4	4	k	000	m	993								
	.5	1S.1	5	k	000	d-	992								
	1S.2	1S.3	6	-	-	c	996						C _{1S.2}	C _{1S.3}	
	1T.1	1T.2	7	b	012	l	011								
	1T.3	1T.4	8	-	-	t	901								
	1U.1	1U.2	9	b	994	a-	996								
	.3	.4	900	c	994	-	-								
	1V.1	1V.2	1	33	860	u	960								
			2	-0	500	-	-		-005						
	1L.5	1M.1	3	c	992	l	991								
	1M.2	1M.3	4	m	991	k	000								
	1N.1	1N.2	5	n	991	u	891								
	1F.1	1F.2	6	b	883	a-	012								
	1F.3	1F.4	7	c	883	u	880								
			8	-	-	-	-								
			9	-	-	-	-								
			910	-	-	-	-								
			1	-	-	-	-								
			2	-	-	-	-								
			3	-	-	-	-								
			4	-	-	-	-								
			5	-	-	-	-								
			6	-	-	-	-								
			7	-	-	-	-								
			8	-	-	-	-								
			9	-	-	-	-								

Block #107

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
P201	02.1	03.1	920	33	770	-									
	03.2	04.1	1	50	978	b	923								
	04.2	.3	2	a-	011	c	923								
	05.1	05.2	3	-		b	829								
	.3	06.1	4	c	993	b	923								
	06.2	.3	5	r	859	q2	856								
P1	11.1	11.2	6	c	998	c	998								
	.3	.4	7	c	994	c	829								
P211	12.1	12.2	8	b	998	a-	958								
	12.3	13.1	9	h	998	b	012								
	13.2	13.3	930	-		q	876								
	14.1	14.2	1	b	011	t	952								
P212	15.1	15.2	2	b	830	f	829								
	.3	.4	3	h	991	g	990								
	16.1	16.2	4	s-	990	k	000								
	.3	.4	5	m	770	c	992								
	.5	.6	6	b	993	d-	992								
	.7	17.1	7	c	992	b	991								
	17.2	.3	8	a-	990	k	000								
	.4	.5	9	m	991	c	991								
	18.1	18.2	940	b	990	m	990								
	.3	.4	1	a-	991	k	000								
	19.1	19.2	2	m	992	c	992								
	1A.1	1A.2	3	b	993	m	993								
	.3	.4	4	k	000	d-	992								
	.5	.6	5	h	980	-									
	1B.1	1B.2	6	a-	994	c	994								
	1C.1	1C.2	7	b	932	a-	959								
	.3	.4	8	c	932	b	945								
	.5	.6	9	a-	956	c	945								
	.7	.8	950	b	935	a-	956								
	.9	.10	1	c	935	u	928								
P213	1D.1	1D.2	2	c	946	c	946								
	.3	.4	3	-		n	932								
			4	-		-									
			5	-		-									
			6	00	001	-									
			7	063661		977236									
			8	-		00 001									
			9	00 001		00 001									
P2	20.1	20.2	960	33	070	50	977								
	21.1	21.2	1	r	859	q2	856								
	22.1	22.2	2	64	000	b	017								
	.3	.4	3	c	880	b	018								
	.5	.6	4	c	881	b	019								
	.7	.8	5	c	882	b	020								
	.9	.10	6	c	883	b	021								
	.11	.12	7	c	884	b	022								
	.13	.14	8	c	885	b	023								
	.15	.16	9	c	886	b	024								
	.17	.18	970	c	887	b	025								
	.19	.20	1	c	888	b	026								
	.21	.22	2	c	889	v	782								
	.23	.24	3	w	896	-									
	.25	.26	4	s-	781	c	893								
	22.27	22.28	5	b	008	c	890								
	23.1	23.2	6	33	920	u	920								
			7	Rprel1		mΔ2-2'			PRELIM	2-2					
			8	Rprel1		mΔ2-1'			PRELIM	2-1					
			9	Rprel1		mΔ2-0'			PRELIM	2-0					

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
S20	20.1	20.2	920	50	935	c	990								
	.3	.4	1	v	936	w	928								
	.5	.6	2	r	934	u	928								
	21.1	21.2	3	v	928	w	928								
	.3	.4	4	r	934	u	928								
	22.1	22.2	5	45	920	b	008								
	.3	.4	6	a-	061	c	008								
S21	.5	.6	7	b	990	u	012								
	23.1	23.2	8	-	-	-	-						C23.1	C23.2	
	.3	.4	9	-	-	-	-						C23.3	C23.4	
	24.1	24.2	930	b	929	s-	061								
	24.3	25.1	1	c	929	b	928								
	25.2	.3	2	a	061	a	065								
	.4	.5	3	c	928	u	928								
	26.1	26.2	4	-	-	-	-							s21	EXIT
			5	ΔV_{res}	ca l e''				RESCALE						
			6	099400	b	992			D ₂₀						
			7	-1 000	c	992			D ₂₁						
			8	099900	b	000			D ₂₂						M(v _{1,1})
			9	-1 000	c	000			D ₂₃						M(v _{1,1})
			880	-	-	-	-		H ₁						
			1	-	-	-	-		H ₂						
			2	-	-	-	-		:						
			3	-	-	-	-		.						
			4	-	-	-	-		H _L						
			5	-	-	-	-								
			6	-	-	-	-								
			7	-	-	-	-								
			8	-	-	-	-								
			9	-	-	-	-								
			890	-	-	-	-		PROB. #						
			1	b	000	i	1 000		D ₁			M(IS _L)			
			2	b	000	i	1 000		D ₂			M(S _{L, H})			
			3	-	-	-	-		c m-1						
			4	-	-	-	-		μ m-1						
			5	01 000	-	-	-		F _{m, 1-1}						
			6	-	-	-	-		δ						
			7	-	-	-	-		$\bar{\epsilon}$						
			8	b99zzz	a-	000			D ₁₀₀			B9X	X = 10-C		M(Y ₁)
			9	-0 000	h	991			D ₁₀₁						
			900	l 895	m	000			D ₁₁₀						M(IS _{f₁})-1
			1	b	000	u	zty		D ₁₁₁			BXX	M(Y ₁)-1	XX = 99+L	
			2	b	000	-2	000		D ₁₃₀			BXX	M(Q _{1,0})-1	XX = 99+N-L	
			3	c	000	c	000		D ₁₃₁				M(S _{f₁})-1		M(Q _{1,0})-1
			4	b	000	-2	000		D ₁₃₂			BXX	M(Y ₁)-1	XX = 99+L	
			5	c	000	c	000		D ₁₃₃				M(IS _{f₁})-1		M(Y ₁)-1
			6	Rsourc	e''R''				P ₁						
			7	Rconve	rged'R				P ₂						
			8	Rcriti	cal'R'				P ₃						
S10	100.1	100.2	9	b	898	c	911								
	.3	.4	910	c	999	50	906								
	101.1	101.2	1	-	-	-	-								
	101.3	102.1	2	c	999	b	911								
	102.2	.3	3	a	069	c	911								
	.4	103.1	4	-	-	u	911								
S100	104.1	104.2	5	43	920	s	008								
	.3	.4	6	09	000	01	000								
	.5	.6	7	a	899	h	919								
	.7	105.1	8	c	924	b	063								
	106.1	106.2	9	-	-	-	-								

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
			070	-		10 000				10^{-6}					
			1	00-999		00-999				$\gamma-1$					
			2	a96zz+	c	980				D_{30}					
			3	v4 920	b	1/wz				D_{31}					
			4	a99zz+	c	980				D_{40}					
			5	g4 860	c	861				D_{111}					
			6												
			7	-											
			8	g 000	c	000				C_5					
			9	m 000	f	000				C_6					
			080	a- 000	c	000				D_{55}					
			1	a- 000	c	000				D_{5A}					
			2	a- 000	c	000				D_{55}					
			3	a- 000	c	000				D_{5A}					
			4	-											
			5	-											
			6	m99984	c	zz+				D_{52}					
			7	l 992	m	000				D_{12}					
			8	d 990	a	000				D_{13}					
			9	m 000	f	000				D_{71}					
			090	-											
			1	-											
			2	-											
			3	-											
			4	-											
			5	-											
			6	-											
			7	-											
			8	-											
			9	-											
			100	-											
			1	-											
			2	-											
			3	-											
			4	-											
154			5	b 991											
			6	-											
			7	b 990		6 000									
			8	a- 990	a-	106									
			9	c 106	u	117									
15	50.1	50.2	110	b 090	a-	071									
	.3	.4	1	b 090	c	106									
	.5	.6	2	b 091	a-	071									
	.7	.8	3	b 091	c	125									
	.9	.10	4	l 992	b	101									
151	51.1	51.2	5	a- 102	c	990									
	.3	.4	6	b 086	c	117									
152	52.1	52.2	7	-											
	53.1	53.2	8	b 117	a	069									
	54.1	54.2	9	c 117	u	105									
153	57.1	57.2	120	b 106		6 000									
	57.3	58.1	1	c 122	b	991									
	58.2	58.3	2	-											
159	59.1	59.2	3	m 099	u	125									
	.3	.4	4	l 064	d-	990									
	5A.1	5A.2	5	-											
	.3	.4	6	-		u 020									
			7	Rba $\ell/\Delta c$	k $\Delta\Delta\Delta$ 00					K20					
16	60.1	60.2	8	b 092	a-	071									
	60.3	60.4	9	h 092	c	106									

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
P221	24.1	24.2	920	b	014	s-	978								
	.3	.4	1	h	997	k	000								
	.5	.6	2	b	010	c	103								
	.7	.8	3	b	012	c	102								
	.9	.10	4	b	784	c	101								
	.11	.12	5	p	102	j	995								
	.13	.14	6	p	101	j	996								
	.15	24.16	7	b	785	a-	101								
	24.17	25.1	8	h	990	a-	878								
	25.2	25.3	9	c	878	b	879								
	.4	.5	930	s-	990	c	879								
	.6	.7	1	b	990	a-	101								
	.8	25.9	2	s-	979	h	990								
	26.1	26.2	3	06	000	a-	903								
	.3	.4	4	c	903	b	990								
	.5	.6	5	a-	101	a-	102								
	.7	.8	6	h	990	061000									
	.9	.10	7	a-	892	c	892								
	.11	.12	8	b	990	a-	996								
	26.13	.14	9	a-	995	a-	995								
	.15	.16	940	h	990	a-	900								
	.17	.18	1	c	900	b	990								
	.19	.20	2	06	000	a-	905								
	.21	.22	3	c	905	b	990								
	.23	.24	4	a-	102	h	990								
	.25	.26	5	06	000	a-	891								
	.27	.28	6	c	891	b	990								
	.29	.30	7	06	000	a-	902								
	.31	.32	8	c	902	b	990								
	26.33	26.34	9	a-	903	c	903								
P222	27.1	27.2	950	b	990	a-	101								
	.3	.4	1	a-	102	h	990								
	.5	.6	2	06	000	a-	901								
	.7	.8	3	c	901	b	990								
	.9	.10	4	a-	905	c	905								
	.11	.12	5	b	990	06	000								
	.13	.14	6	a-	904	c	904								
	.15	.16	7	b	990	a-	979								
	27.17	27.18	8	a-	898	c-	898								
	28.1	28.2	9	b	979	s-	011								
	.3	.4	960	09	000	a-	898								
	.5	.6	1	c	898	s-	102								
	.7	.8	2	a-	977	u	974								
	28.13	28.14	3	c	901	b	904								
	.15	.16	4	a-	991	c	904								
	.17	.18	5	s-	101	09	000								
	.19	.20	6	a-	991	-									
	.21	.22	7	a-	902	c	902								
	.23	.24	8	s-	990	a-	101								
	.25	.26	9	s-	102	a-	785								
	.27	.28	970	08	000	a-	878								
	28.29	29.1	1	c	878	j	978								
	29.2	.3	2	r	859	q2	856								
	2A.1	2A.2	3	33	920	u	920								
	28.9	28.10	4	09	000	h	991								
	28.11	28.12	5	a-	901	u	963								
			6	-	-	-	-								
			7	-	-	00	099								
			8	-	-	00	003								
			9	-	-	00	001								

Block #111

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
P ₂ ³	30.1	30.2	920	b	922	k	000								
	.3	.4	1	r	859	q2	856								
	31.1	31.2	2	54	860	50	962								
	32.1	33.1	3	33	010	c	998								
	33.2	.3	4	c	998	c	829								
	.4	.5	5	-	-	u	938								
P231	34.1	34.2	6	b	830	h	990						M($\frac{b}{p}$)		
	.3	.4	7	a-	829	c	991						M($\frac{b}{p} - 1$)		
	35.1	35.2	8	d-	991	h	820								M(Δp)
	.3	36.1	9	c	991	b	938								
	36.2	.3	930	a-	960	c	938								
	.4	.5	1	b	926	a-	960								
	.6	.7	2	c	926	b	927								
	.8	.9	3	a-	960	c	927								
	.A	.B	4	b	928	a-	961								
	36.C	37.1	5	c	928	b	998								
	37.2	37.3	6	a-	961	h	998								
	38.1	38.2	7	l	102	q	940								
P230	39.1	39.2	8	b	880	g	000						M(H_p)		
	.3	.4	9	k	000	u	926								
P232	3A.1	3A.2	940	l	957	d-	993								
	.3	3B.1	1	c	992	l	992								
	3B.2	.3	2	m	992	c	992								
	.4	.5	3	m	992	c	992								
	3C.1	3C.2	4	l	958	m	990								
	.3	.4	5	c	990	l	992								
	.5	.6	6	d-	990	k	000								
	3D.1	3D.2	7	m	991	c	085								
	3E.1	3E.2	8	l	992	d-	959								
	3E.3	3F.1	9	c	992	l	991								
	3F.2	3F.3	950	m	992	c	992								
	.4	.5	1	m	992	c	084								
	.6	.7	2	y	820	z	830								
	3G.1	3G.2	3	b	781	c	104								
	3H.1	3H.2	4	b	922	k	000								
	.3	.4	5	r	859	q2	856								
	3I.1	3I.2	6	33	920	u	920								
			7	01	000	-	-								
			8	00	015	-	-								
			9	-	-	15	000								
			960	00	001	-	-								
			1	-	-	00	001								
			2	Rpre	li	m	$\Delta 2-3'$								
			3	-	-	-	-								
			4	-	-	-	-								
			5	-	-	-	-								
			6	-	-	-	-								
			7	-	-	-	-								
			8	-	-	-	-								
			9	-	-	-	-								
			970	-	-	-	-								
			1	-	-	-	-								
			2	-	-	-	-								
			3	-	-	-	-								
			4	-	-	-	-								
			5	-	-	-	-								
			6	-	-	-	-								
			7	-	-	-	-								
			8	-	-	-	-								
			9	-	-	-	-								

Block #113

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
P ₂ ⁴	0.1	1.1	920	50	976	b	979								
	1.2	1.3	1	a-	997	h	991								
	1.4	2.1	2	09	000	a-	074								
	2.2	3.1	3	c	074	b	061								
	3.2	3.3	4	a-	997	09	000								
	4.1	4.2	5	a-	086	c	086								
	5.1	5.2	6	b	785	06	000								
	.3	.4	7	a-	078	c	078								
	.5	.6	8	b	785	a-	784								
	.7	6.1	9	h	990	a-	078								
	6.2	6.3	930	c	078	b	990								
	.4	.5	1	a-	087	c	087								
	7.1	7.2	2	b	990	a-	784								
	.3	.4	3	a-	061	h	990								
	8.1	8.2	4	06	000	a-	079								
	.3	.4	5	c	079	b	990								
	.5	.6	6	a-	061	a-	088								
	.7	9.1	7	c	088	b	990								
	9.2	.3	8	a-	102	a-	784								
	.4	10.1	9	h	990	a-	079								
	10.2	11.1	940	c	079	b	990								
	11.2	.3	1	a-	784	a-	102								
	.4	.5	2	a-	061	h	990								
	.6	.7	3	a-	080	c	080								
	12.1	12.2	4	b	990	a-	784								
	.3	.4	5	a-	102	h	990								
	13.1	13.2	6	06	000	a-	080								
	.3	14.0	7	c	080	l	991								
	14.1	.2	8	p	784	u	973								
	14.9	14.10	9	a-	995	a-	102								
	.11	.12	950	a-	102	h	990								
	15.1	15.2	1	a-	082	c	082								
	16.1	16.2	2	b	990	a-	061								
	.3	.4	3	a-	089	c	089								
	17.1	17.2	4	b	990	a-	102								
	18.1	18.2	5	06	000	u	971								
P ₂₄₀	19.1	19.2	6	b	990	a-	995								
	19.3	20.1	7	h	990	a-	061								
	.2	.3	8	06	000	a-	089								
	20.4	21.1	9	c	089	b	990								
	21.2	21.3	960	a-	784	a-	102								
	.4	22.1	1	h	990	a-	081								
	22.2	22.3	2	c	081	b	990								
	.4	.5	3	06	000	a-	081								
	22.6	23.1	4	c	081	b	990								
	23.2	.3	5	a-	102	h	990								
	.4	.5	6	a-	083	c	083								
	.6	.7	7	b	990	06	000								
	.8	.9	8	a-	083	c	083								
	23.10	23.11	9	l	976	q7	856								
	24.1	24.2	970	33	920	u	920								
	18.3	18.4	1	a-	082	c	082								
	.5	.6	2	-	-	u	956								
	14.3	14.4	3	x	000	a-	785								
	.5	.6	4	c	991	a-	991								
	14.7	14.8	5	-	-	u	949								
			6	Rpre	l1	m/2-4R		PRELIM	2-4						
			7	-	-	-									
			8	-	-	-									
			9	-0	000	00	003			-3°					

Block #114

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGN- MENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
P ₂ ⁵	50.1	50.2	920	y	770	z	910								
	.3	.4	1	b	785	c	900								
	51.1	51.2	2	y	970	z	310								
	.3	.4	3	z	320	z	330								
	.5	.6	4	z	340	z	350								
	.7	.8	5	z	360	z	370								
	.9	.10	6	z	380	z	390								
	.11	.12	7	z	400	z	410								
	.13	.14	8	z	420	z	430								
	.15	.16	9	z	440	z	450								
	.17	.18	930	z	460	z	470								
	.19	.20	1	z	480	z	490								
	.21	.22	2	z	500	z	510								
	.23	.24	3	z	520	z	530								
	.25	.26	4	z	540	z	550								
	.27	.28	5	z	560	z	570								
	.29	.30	6	z	580	z	590								
	.31	.32	7	z	600	z	610								
	.33	.34	8	z	620	z	630								
	.35	.36	9	z	640	z	650								
	51.37	51.38	940	z	660	z	670								
	.39	.40	1	z	680	z	690								
	.41	.42	2	z	700	z	710								
	.43	.44	3	z	720	z	730								
	.45	.46	4	z	740	z	750								
	.47	.48	5	z	760	z	770								
	.49	.50	6	z	780	z	790								
	.51	.52	7	z	800	z	810								
	51.53	51.54	8	z	820	-									
	52.1	52.2	9	b	900	a-	996								
	.3	.4	950	a-	995	a-	995								
	.5	.6	1	a-	101	a-	101								
	.7	.8	2	a-	101	a-	101								
	.9	.10	3	a-	102	a-	102								
	.11	.12	4	a-	102	a-	102								
	52.13	52.14	5	h	990	u	960								
P250	53.1	53.2	6	k	000	c	840								M53(x)
	54.1	54.2	7	b	956	a-	965								
	.3	55.1	8	c	956	b	990								
	55.2	.3	9	a-	965	h	990								
	56.1	56.2	960	l	967	t	956								
	57.1	57.2	1	33	130	64	000								
	58.1	58.2	2	b	964	k	000								
	.3	.4	3	r	859	q2	856								
	59.1	59.2	4	33	920	u	920								
			5	-	00	001									
			6	00	001	-									
			7	-	00	840									
			8	-	-	-									
			9	-	-	-									
			970	-	-	-									
			1	-	-	-									
			2	-	-	-									
			3	-	-	-									
			4	-	-	-									
			5	-	-	-									
			6	-	-	-									
			7	-	-	-									
			8	-	-	-									
			9	-	-	-									

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
	60.5	60.6	130	b	093	a-	071								
	.7	.8	1	h	093	c	125								
	.9	.10	2	l	994	u	115								
I ₁	10.1	10.2	3	b	138	s-	061								
	.3	.4	4	c	138	b	140								
	.5	.6	5	s-	061	c	140								
	11.1	11.2	6	s-	077	-2	000								
	.3	.4	7	a-	055	c	055								
I ₁₂	12.1	12.2	8	-	-	-	-					←	C _{12.1}	C _{12.2}	→
	12.3	13.1	9	c	990	l	064								
	13.2	13.3	140	-	-	-	-					←	C _{13.2}	C _{13.3}	→
	.4	.5	1	c	993	u	144								
I ₁₆	16.1	16.2	2	r	013	u	010								
			3	-	-	u	138								
	14.1	14.2	4	l	055	q	146								
	15.0	15.1	5	-	-	d	993								
I ₁₁	110.1	110.2	6	f	008	u	148								
	15.2	15.3	7	-	-	u	142								
I ₁₁₁	111.1	111.2	8	g ⁴	860	c	861					←	C _{111.1}	C _{111.2}	→
	112.1	112.2	9	b	148	a	066								
	113.1	113.2	150	c	148	u	022								
	114.1	114.2	1	b	075	56	860								
	.3	.4	2	-	-	u	150								
I ₂	20.1	20.2	3	h	982	a-	995								
	.3	.4	4	s-	043	1	000								
	.5	.6	5	2	000	k	000								
	21.1	21.2	6	b	070	t	239								
	22.1	22.2	7	b	127	a-	998								
	22.3	23.1	8	c	990	50	990								
	24.1	24.2	9	b	062	t	239								
	25.1	25.2	160	50	127	u	000								
I ₄₁	41.1	41.2	1	a	997	a	994								
	43.1	43.2	2	h	994	u	022								
I ₄₄	44.1	44.2	3	r	013	u	010								
I ₄	40.1	40.2	4	b	997	u	161								
I ₇	70.1	70.2	5	l	981	m	994								
	70.3	71.1	6	c	990	l	983								
	71.2	71.3	7	-	-	-	-					←	C _{71.2}	C _{71.3}	→
	71.4	71.5	8	c	124	u	337								
	72.2	72.3	9	d-	990	s-	991								
	72.4	73.1	170	c	043	b	167								
	73.2	73.3	1	a-	071	c	167								
	74.1	74.2	2	b	995	u	146								
I ₈	141.1	141.2	3	l	095	m	993								
	141.3	142.1	4	c	990	l	056								
	142.2	142.3	5	d-	990	c	990								
	143.1	143.2	6	l	980	d-	990								
	143.3	143.4	7	c	995	u	211								
I ₁₀	100.1	100.2	8	s-	096	06	000								
	.3	.4	9	s-	096	s-	060								
	.5	.6	180	r	040	u	329								
I ₉	91.1	91.2	1	b	992	s-	993								
	.3	.4	2	k	000	m	095								
	.5	92.1	3	c	990	l	094								
	92.2	.3	4	m	992	a-	990								
	.4	.5	5	h	990	a-	990								
	.6	93.1	6	c	990	a-	095								
	93.2	.3	7	a-	030	k	030								
	.4	.5	8	n	996	c	030								
	94.1	94.2	9	l	997	m	981								

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
P252	5A.1	5A.2	920	b	964	a-	990								
	.3	.4	1	a-	101	x	000								
	.5	.6	2	h	939	x	000								
	.7	.8	3	a-	102	a-	996								
	.9	.10	4	a-	995	x	000								
	.11	.12	5	c	935	y	830								
	.13	5B.1	6	z	870	33	190								
	5B.2	5C.1	7	33	250	35	310								
	5C.2	.3	8	b	960	c	998								
	.4	.5	9	y	970	z	830								
	.6	.7	930	c	100	c	999								
	.8	.9	1	b	079	a-	965								
	.10	.11	2	c	079	-									
P253	5D.1	5D.2	3	b	980	-2	000						M(Y _Y)		
	.3	.4	4	c	990	l	994								
	.5	.6	5	-	-	-							C _{5D.5}	C _{5D.6}	
P254	5E.1	5E.2	6	b	910	-2	000						M(S _Y)		
	.3	.4	7	k	000	m	100								
	.5	.6	8	c	990	l	994								
	.7	.8	9	-	-	-							C _{5E.7}	C _{5E.8}	
	5F.1	5F.2	940	b	939	a-	960								
	.3	.4	1	c	939	x	000								
	.5	.6	2	a-	999	h	999								
	5G.1	5G.2	3	l	880	t	947						M(H _Y)		
	5H.1	5H.2	4	b	870	-2	000						M(Δ _Y)		
	.3	.4	5	a-	100	c	100								
	.5	.6	6	-	-	u	936								
P255	5I.1	5I.2	7	b	935	a-	960								
	.3	.4	8	c	935	b	933								
	.5	.6	9	a-	961	c	933								
	.7	.8	950	x	000	a-	936								
	.9	.10	1	c	936	b	961								
	.11	.12	2	a-	943	c	943								
	.13	.14	3	b	961	a-	944								
	.15	.16	4	c	944	c	999								
	5J.1	5J.2	5	b	960	a-	998								
	5K.1	5K.2	6	l	102	t	966								
	5L.1	5L.2	7	c	998	u	933								
	5M.1	5M.2	8	r	859	q2	856								
P257	5N.1	5N.2	9	v	978	u	971								
			960	-	-	00	001								
			1	00	001	-									
	5N.9	5N.10	2	c	008	b	960								
	5P.1	5P.2	3	35	920	u	229								
			4	d-	990	c	000								
			5	00	001	00	001								
P256	5Q.1	5Q.2	6	b	939	a-	970								
	.3	.4	7	6	000	c	968								
	5R.1	5R.2	8	-	-	-									
	.3	.4	9	-	-	u	958						M(T)		
			970	-	-	00-999									
	5N.3	5N.4	1	w	830	w	832								
	5N.5	5N.6	2	b	960	a-	960								
	5N.7	5N.8	3	-	-	u	962								
			4	-	-	-									
			5	-	-	-									
			6	-	-	-									
			7	-	-	-									
			8	-	-	-									
			9	-	-	-									

Block #117

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
	94.3	94.4	190	h	991	a-	991								
	.5	95.1	1	c	991	l	064								
	96.1	96.2	2	d-	030	a-	991								
	.3	97.1	3	c	991	d-	990								
	97.2	98.1	4	c	990	l	980								
	98.2	.3	5	d-	990	c	990								
	99.1	99.2	6	l	065	d-	991								
	.3	.4	7	a-	990	u	153								
10	0.1	0.2	8	b	331	a-	060								
	.3	.4	9	c	331	c	992								
	.5	.6	200	y	080	z	090								
	.7	.8	1	b	087	c	138								
	.9	.10	2	b	088	c	140								
	.11	.12	3	b	089	c	167								
	.13	.14	4	b	100	c	055								
γ_4	.15	.16	5	r	043	u	031								
	1.1	1.2	6	b	096	c	097								
	.3	.4	7	r	022	u	133								
	.5	.6	8	r	022	u	052								
	3.1	2.1	9	c	996	l	102								
	2.2	2.3	210	b	998	q	173								
γ_1	2.4	2.5	1	r	022	u	044								
	4.1	4.2	2	s-	996	c	994								
	.3	.4	3	r	022	u	110								
	5.1	5.2	4	b	095	s-	094								
	.3	.4	5	c	095	f	993								
	.5	.6	6	b	992	c	993								
	5.7	6.1	7	g	992	b	097								
	6.2	.3	8	s-	061	h	097								
	.4	.5	9	k	000	q	230								
	.6	.7	220	r	022	u	133								
	.8	.9	1	r	022	u	044								
	.10	.11	2	r	022	u	164								
	6.12	6.13	3	-		u	213								
J2	3.1	3.2	4	65	000	56	860								
	4.1	5.1	5	34	920	56	860								
	6.1	6.2	6	33	860	u	909								
J0	0.1	0.2	7	b	999	a-	061								
	1.1	1.2	8	l	103	t	224								
J1	2.1	2.2	9	c	999	u	253								
γ_2	6.14	6.15	230	r	022	u	052								
	7.1	7.2	1	-		c	996								
	.3	.4	2	r	022	u	044								
	8.1	8.2	3	a-	996	k	000								
	.3	.4	4	m	067	c	997								
	.5	.6	5	r	022	u	164								
	.7	.8	6	r	022	u	146								
	.9	.10	7	r	022	u	165								
	.11	.12	8	-		u	178								
α	9.1	9.2	9	b	982	c	995								
γ_3	.3	.4	240	r	022	u	110								
	.5	.6	1	r	022	u	128								
	A.1	B.1	2	l	098	m	098								
	B.2	B.3	3	c	990	m	095								
	B.4	C.1	4	c	991	l	063								
	C.2	.3	5	d-	991	c	095								
	.4	.5	6	l	990	m	094								
	.6	.7	7	c	990	l	064								
	.8	.9	8	d-	990	c	094								
	D.1	D.2	9	b	998	s-	061								

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
00	D.3	D.4	250	h	998	k	000								
	.5	.6	1	-		q	227								
	.7	.8	2	-		u	205								
	0.1	0.2	3	b	078	h	257								
	.3	.4	4	c	305	b	079								
	.5	.6	5	c	331	c	094								
01	.7	.8	6	c	992	f	992								
	.9	.10	7	-		-									
	1.1	1.2	8	a-	061	c	998								
	.3	.4	9	r	022	u	014								
	2.1	2.2	260	c	097	b	998								
	.3	.4	1	l	061	q	306								
	3.1	3.2	2	l	059	m	077								
	.3	.4	3	c	090	l	076								
	.5	.6	4	d-	090	h	090								
	.7	.8	5	-l	000	c	984								
02	4.1	4.2	6	l	098	m	994								
	.3	.4	7	c	994	m	980								
	.5	.6	8	-l	000	c	985								
	.7	.8	9	m	090	c	091								
	.9	.10	270	l	063	d-	091								
	4.11	5.1	1	c	091	l	068								
	5.2	.3	2	m	090	a-	058								
	.4	.5	3	c	092	n	091								
	.6	.7	4	a-	058	c	093								
	6.1	6.2	5	l	989	d-	985								
03	.3	.4	6	c	982	-									
	.5	.6	7	r	040	u	328								
	7.1	7.2	8	l	093	m	095								
	.3	.4	9	c	095	m	994								
	.5	.6	280	c	994	a-	091								
	.7	.8	1	-l	000	a-	095								
	7.9	8.1	2	c	095	l	982								
	8.2	.3	3	m	095	c	095								
	.4	.5	4	m	094	c	094								
	.6	.7	5	m	992	c	992								
01	.8	.9	6	r	013	-									
	9.1	9.2	7	l	064	d	992								
	10.1	10.2	8	c	992	u	290								
	9.3	9.4	9	-		u	010								
	11.1	11.2	290	d-	094	c	094								
	.3	.4	1	d-	095	c	095								
	12.1	12.2	2	l	092	m	996								
	.3	.4	3	-l	000	c	996								
	.5	.6	4	m	981	a-	095								
	.7	.8	5	a-	984	c	095								
03	.9	.10	6	l	063	d-	095								
	.11	.12	7	c	095	r	013								
	13.1	13.2	8	b	994	a	996								
	14.1	14.2	9	c	984	u	301								
	13.3	13.4	300	-		u	010								
	15.1	15.2	1	l	064	d	984								
	16.1	16.2	2	c	994	u	311								
	15.3	15.4	3	-		u	010								
	22.0	22.1	4	-		f	094								
	22.2	22.3	5	-		-									
01	.4	.5	6	r	040	u	328								
	23.1	23.2	7	c	994	b	097								
	.3	.4	8	a-	061	h	097								
	23.5	23.6	9	l	096	q	325								

Block #119

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
	24.1	24.2	310	b	981	c	095								
	17.1	17.2	1	b	060	a-	305								
	.3	18.1	2	c	305	a-	094								
	18.2	.3	3	-2	000	a-	095								
	.4	.5	4	k	000	d-	070								
	.6	.7	5	c	094	r	013								
	19.1	19.2	6	l	980	m	994								
	.3	.4	7	c	986	l	065								
	.5	.6	8	d	986	a	992								
	20.1	20.2	9	k	000	u	321								
	19.7	19.8	320	-		u	010								
	20.3	20.4	1	m	094	c	986								
	.5	.6	2	l	064	d	986								
	21.1	21.2	3	h	992	u	304								
	20.7	20.8	4	-		u	010								
	25.1	25.2	5	f	980	b	998								
	.3	.4	6	l	102	q	198								
	26.1	26.2	7	g	989	u	258								
01	27.1	27.2	8	-		b	060								
112	27.3	27.4	9	a-	331	c	331								
	28.1	28.2	330	r	013	l	983								
	29.1	29.2	1	-		-									
	29.3	29.4	2	c	990	l	064								
	.5	.6	3	g	124	-									
	.7	.8	4	d	990	a	124								
	30.1	30.2	5	h	996	u	040								
	31.1	31.2	6	l	983	u	010								
	71.6	71.7	7	l	064	g	991								
	.8	.9	8	d-	124	a-	991								
	.10	72.1	9	c	991	l	065								
	72.0	72.1	0	-		u	169								
			1	-		-									
			2	-		-									
			3	-		-									
			4	-		-									
			5	-		-									
			6	-		-									
			7	-		-									
			8	-		-									
			9	-		-									
			0	-		-									
			1	-		-									
			2	-		-									
			3	-		-									
			4	-		-									
			5	-		-									
			6	-		-									
			7	-		-									
			8	-		-									
			9	-		-									
			0	-		-									
			1	-		-									
			2	-		-									
			3	-		-									
			4	-		-									
			5	-		-									
			6	-		-									
			7	-		-									
			8	-		-									
			9	-		-									

Block #120

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
	107.1	107.2	920	b	999	-2	000								
	.3	.4	1	c	992	l	991								
	.5	.6	2	d-	992	c	998								
S11	110.1	110.2	3	b	896	h	990								
	111.1	111.2	4	-		-									
	112.1	112.2	5	k	000	50	998								
	.3	.4	6	r	859	q3	856								
	113.1	113.2	7	b	900	c	939								
	.3	.4	8	b	901	c	936								
	114.1	114.2	9	b	998	s	895								
B110	115.1	115.2	930	l	000	l	000								
	116.1	116.2	1	l	990	t	941								
	117.1	117.2	2	b	991	c	990								
	118.1	118.2	3	b	939	a	061								
	.3	119.1	4	c	939	b	936								
	119.2	119.3	5	a	069	c	936								
	11A.1	11A.2	6	-		-									
	119.4	119.5	7	50	907	u	966								
B111	11B.1	11B.2	8	-1	000	c	993								
	11C.1	11C.2	9	-		-									
	.3	.4	940	s	993	u	930								
S13	130.1	130.2	1	b	998	h	895								
	131.1	131.2	2	k	000	66	000								
	.3	.4	3	r	859	q4	856								
	132.1	133.1	4	54	860	b	902								
	133.2	.3	5	c	962	b	903								
	.4	.5	6	r	960	u	957								
	134.1	134.2	7	b	061	44	920								
	.3	.4	8	a-	061	c	008								
	135.1	135.2	9	b	904	c	962								
	.3	.4	950	b	905	-									
	.5	.6	1	r	960	u	957								
	136.1	137.1	2	35	860	b	073								
	137.2	.3	3	c	023	b	075								
	.4	138.1	4	c	148	b	061								
	138.2	.3	5	-		-									
	.4	.5	6	35	920	u	229								
S15	150.1	150.2	7	a	060	c	964								
	151.1	151.2	8	b	962	a	069								
	152.1	152.2	9	c	962	u	961								
	151.3	151.4	960	-		-									
S50	153.1	153.2	1	l	999	-									
	154.1	154.2	2	-		-									
	155.1	155.2	3	c	990	d-	990								
	.3	.4	4	-		-									
	156.1	156.2	5	b	964	u	957								
S12	120.1	121.1	6	50	104	l	897								
	122.1	122.2	7	b	063	s-	998								
	.3	.4	8	h	992	l	000								
	.5	.6	9	l	000	t	972								
	123.1	123.2	970	33	920	33	920								
	124.1	124.2	1	35	200	u	200								
S14	140.1	140.2	2	b	104	s-	893								
	.3	.4	3	k	000	m	992								
	.5	.6	4	c	992	b	998								
	.7	.8	5	s	894	k	000								
	.9	.10	6	d-	992	a-	104								
	141.1	141.2	7	f	104	g	893								
	142.1	143.1	8	c	104	b	998								
	143.2	143.3	9	c	894	u	941								

Block #121

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
Sr	-1.1	-1.2	200	35	920	u	232								
	-1.7	-1.8	1	r	022	u	014								
	0.1	0.2	2	b	079	a-	062								
	.3	.4	3	f	208	e	214								
	.5	.6	4	h	214	.6	000								
	.7	.8	5	f	209	e	213								
	.9	.10	6	c	213	c	055								
	.11	.12	7	c	997	u	210								
	.13	.14	8	111000	111111										
	.15	.16	9	111111	111000										
	1.1	1.2	210	a-	061	c	097								
	2.1	2.2	1	b	077	-2	000								
	.3	.4	2	a-	055	h	055								
	2.5	3.1	3	l	055	d	000								
	4.1	4.2	4	c	000	u	217								
	3.2	3.3	5	r	013	u	010								
	3.4	3.5	6	-		u	213								
	5.1	5.2	7	b	213	a-	061								
	.3	.4	8	c	213	b	214								
	.5	.6	9	a-	062	c	214								
	6.1	6.2	220	b	097	l	096								
	.3	.4	1	-		q	223								
	.5	.6	2	-		u	210								
	7.1	7.2	3	b	997	a-	061								
	.3	.4	4	h	997	l	102								
	.5	.6	5	-		q	229								
	.7	.8	6	r	022	u	014								
	8.1	8.2	7	k	000	c	097								
	.3	.4	8	-		u	213								
	9.1	9.2	9	65	000	33	920								
	10.1	10.2	230	33	920	u	920								
	.3	.4	1	-		-									
	-1.3	-1.4	2	b	073	c	023								
	-1.5	-1.6	3	-		u	201								
			4	-		-									
			5	-		-									
			6	-		-									
			7	-		-									
			8	-		-									
			9	-		-									
			240	-		-									
			1	-		-									
			2	-		-									
			3	-		-									
			4	-		-									
			5	-		-									
			6	-		-									
			7	-		-									
			8	-		-									
			9	-		-									
			250	-		-									
			1	-		-									
			2	-		-									
			3	-		-									
			4	-		-									
			5	-		-									
			6	-		-									
			7	-		-									
			8	-		-									
			9	-		-									

Block #122

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
			920	33	010	u	010								
			1	R	Δxx	Δxx	'T		C ₁						
			2	00	001	-			C ₂						
			3	RR	rAS	l	ΔxxΔΔ		C ₃						
			4	Lc	Δ1	'	'U'		C ₄						
			5	ΔL	rΔ1	U	'		C ₅						
			6	RR	ΔΔ	l	ΔΔhTA		C ₆						
			7	ΔΔ	ΔSe	r	T		C ₇						
			8	'	ΔΔΔΔ	Si	SrR		C ₈						
			9	TL	Δ1Δ	U	'RRΔ		C ₉						
			930	Δ	lΔhT	ΔΔΔΔ	S		C ₁₀						
			1	4T	ΔΔΔΔ	ΔL14	TU		C ₁₁						
			2	ΔΔΔ	S	eoT	ΔΔ		C ₁₂						
			3	ΔΔSe	r	'	'		C ₁₃						
			4	wrong	Δ	'	'date		C ₁₄						
			5	'	'	'	'		C ₁₅						
			6	001001	-				C ₁₆						
			7	h4	190	-			C ₁₇						
			8	-		00	301		C ₁₈						
			9	Rtape	Δ	7Δfu	ll		C ₁₉						
			940	111111	11	011			C ₂₀						
			1	-		00	001		C ₂₁						
			2	10	000	-			C ₂₂						
			3	111100	111111				C ₂₃						
			4	111111	10	111			C ₂₄						
			5	077000	-				LC ₁						
			6	P	'P	'	'		C ₂₆						
			7	R	'R	'R	'R		C ₂₇						
			8	Rend	ΔΔ	ΔΔbo	ΔΔ		C ₂₈						
3.3	3.4		9	r	975	u	136								
4.1	4.2		950	b	932	-									
.3	.4		1	r	975	u	136								
5.1	5.2		2	b	965	-									
.3	.4		3	r	975	u	136								
.5	.6		4	-		u	976								
36.1	36.2		5	50	934	-									
36.3	.4		6	90	000	u	856								
.5	.6		7	e	933	u	104								
			8	R	'R	'BR	'R	'R		C ₃₈					
			9	PPPPPP	PPPPPP				C ₃₉						
21.1	21.2		960	e	933	u	092								
			1	-		00	274		C ₄₁						
			2	-		01	000		C ₄₂						
			3	Tpage	Δ	00T	'		PW ₁						
			4	-		u	064		C ₄₄						
			5	'	'	'	'R		C ₄₅						
			6	006000	-				C ₄₆						
			7	vh	250	w	990		C ₄₇						
			8	002002	-				C ₄₈						
			9	111111	101111				C ₄₉						
			970	-	-				C ₅₀ = $(\pi/36)^\circ \times 10^{-5}$						
			1	-	-				C ₅₁ = N°						
			2	-	-				C ₅₂ = L°						
			3	-	-				C ₅₃ = F°						
			4	-	-				C ₅₄ = c ^m						
			5	-	-								E ₁		
			6	-	-								E ₂		
			7	-	-								E ₃		
			8	-	-								LC		
			9	-	-										

Block #123

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
	1.3	1.4	010	50	908	66	000								
	1.5	1.6	1	y	100	z	970								
	1.7	1.8	2	33	070	36	130								
	2.1	3.1	3	-		l	961								
	3.2	3.3	4	b	009	t	016								
	4.1	4.2	5	50	099	u	020								
	5.1	5.2	6	b	959	c	190								
	6.1	7.1	7	77	190	50	939								
	7.2	8.1	8	c	009	87	000								
	8.2	8.3	9	90	000	u	015								
E5	0.1	0.2	020	h	892	c	038								
	0.3	0.4	1	b	891	c	046								
	0.5	.6	2	b	026	a-	972								
	.7	.8	3	c	026	b	055								
	.9	.10	4	a-	972	c	055								
	1.1	1.2	5	b	972	c	997								
	.3	.4	6	-		b	879								M(H ₁)
	.5	2.1	7	c	992	l	007								
	2.2	2.3	8	r	977	q	955								
	3.1	3.2	9	r	976	u	152								
e52	3.3	3.4	030	r	976	u	162								
	.5	.6	1	r	975	u	133								
	4.1	4.2	2	b	997	06	000								
	.3	.4	3	f	943	e	921								
	.5	.6	4	c	921	b	992								
	.7	.8	5	03	000	f	944								
	.9	.10	6	e	921	-									
	.11	.12	7	r	975	u	136								
	5.1	5.2	8	b	000	1	000						M(S _{l,h})		
	.3	.4	9	f	941	e	921								
e51	.5	.6	040	r	975	u	136								
	6.1	6.2	1	l	992	q	046								
	7.1	7.2	2	b	992	s-	941								
	8.1	8.2	3	c	992	b	038								
	.3	.4	4	s-	922	c	038								
	.5	.6	5	-		u	031								
	9.1	9.2	6	b	000	1	000						M(S _{l,f})		
	.3	.4	7	e	933	-									
	.5	.6	8	r	975	u	136								
	10.1	10.2	9	b	997	s-	941								
e53	.3	.4	050	h	997	k	000								
	.5	.6	1	-		q	057								
	11.1	11.2	2	b	055	s-	941								
	.3	.4	3	c	055	b	046								
	.5	.6	4	s-	922	c	046								
	12.1	12.2	5	-		b	879								M(H _l)
	.3	.4	6	-		u	043								
	13.1	13.2	7	b	973	c	999								
	.3	.4	8	r	975	u	131								
	14.1	14.2	9	b	026	h	061								
e58	.3	.4	060	c	099	f	972								
	.5	.6	1	-		-								B	M(H _l)
	.7	.8	2	g	997	c	992								
	.9	.10	3	r	976	u	144								
	.11	.12	4	r	976	u	152								
	.13	.14	5	r	976	u	182								
	15.1	15.2	6	b	964	c	977								
	.3	.4	7	r	975	u	133								
	.5	.6	8	b	992	s-	941								
	15.7	15.8	9	c	992	-									

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
	15.9	15.10	070	r	975	u	121								
	16.1	16.2	1	b	997	06	000								
	.3	.4	2	f	943	e	921								
	.5	.6	3	c	921	b	992								
	.7	.8	4	03	000	f	944								
	.9	.10	5	e	921	-									
	.11	.12	6	r	975	u	136								
	17.1	17.2	7	l	992	q	082								
	.3	.4	8	b	990	;1	000								
	.5	.6	9	f	941	e	933								
	.7	.8	080	r	975	u	136								
	.9	.10	1	-		u	066								
e55	18.1	18.2	2	b	990	;1	000								
	.3	.4	3	f	941	e	921								
	.5	.6	4	r	975	u	136								
	.7	.8	5	r	975	u	121								
	19.1	19.2	6	b	990	;1	000								
	.3	.4	7	f	941	e	921								
	.5	.6	8	r	975	u	136								
	.7	.8	9	r	975	u	121								
	20.1	20.2	090	k	000	b	990								
	.3	.4	1	f	942	t	960								
	21.3	21.4	2	-		-									
	.5	.6	3	f	941	e	924								
	.7	.8	4	r	975	u	136								
e56	22.1	22.2	5	k	000	h	997								
	.3	.4	6	s-	941	q	106								
	24.1	25.1	7	c	997	b	099								
	25.2	.3	8	s-	941	c	099								
	26.1	26.2	9	editAr	outline										
	.3	.4	100	c	992	u	066								
e57	.5	.6	1	r	975	u	121								
	27.1	27.2	2	k	000	b	990								
	.3	.4	3	f	942	t	957								
			4	-		-									
			5	r	975	u	136								
	29.1	29.2	6	l	973	b	999								
	.3	.4	7	-		q	110								
	30.1	30.2	8	a-	941	c	999								
	.3	.4	9	-		u	059								
			110	r	976	u	144								
	31.1	31.2	1	b	946	50	948								
	31.3	31.4	2	r	975	u	136								
	32.1	32.2	3	b	136	a	936								
	33.1	33.2	4	b	935	u	112								
	34.1	34.2	5	l	935	j	249								
	.3	.4	6	77	190	50	009								
	.5	.6	7	33	200	30	200								
	35.1	35.2	8	66	000	u	200								
	.3	.4	9	33	860	33	860								
	.5	.6	120	33	920	u	920								
E4	1.1	1.2	1	-		-						V40 + i	250 + i	W	990
e40	5.1	5.2	2	l	990	b	008								
	.3	.4	3	f	969	q	128								
	6.1	6.2	4	s-	990	04	000								
	.3	.4	5	e	126	c	126								
	7.1	7.2	6	b	991	-x	000								
	9.1	9.2	7	c	990	u	129								
	8.1	8.2	8	b	991	u	127								
e42	2.1	2.2	9	b	121	a	968								

Block #125

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
	2.3	2.4	130	c	121	u	975								
E ₄₁	3.1	3.2	1	b	967	c	121								
	4.1	4.2	2	36	250	u	975								
E ₆	1.1	1.2	3	b	978	a	936								
	2.1	2.2	4	c	978	u	975								
	1.3	1.4	5	-		u	977								
E ₇	1.1	1.2	6	h4	190	-						40 + i	x ₁		
	2.1	2.2	7	b	136	a	936								
	3.1	3.2	8	c	136	u	975								
	4.1	5.1	9	77	190	l	938								
	5.2	.3	140	b	009	a-	941								
	.4	.5	1	h	009	q	143								
	6.1	6.2	2	b	937	u	138								
E ₈	7.1	7.2	3	90	000	u	856								
	1.1	1.2	4	r	975	-									
	.3	.4	5	b	978	a	966								
	3.1	3.2	6	c	978	u	150								
	2.1	2.2	7	b	978	a	936								
	4.1	4.2	8	c	978	u	151								
	2.3	2.4	9	-		u	976								
	5.1	5.2	150	b	947	u	136								
	6.1	6.2	1	b	965	u	136								
E ₁₀	1.1	1.2	2	b	958	-									
	1.3	1.4	3	r	975	u	136								
	2.1	2.2	4	b	890	-									
	2.3	2.4	5	r	975	u	136								
	3.1	3.2	6	b	963	a-	962								
	.3	.4	7	h	963	-									
	.5	.6	8	r	975	u	136								
	4.1	4.2	9	b	007	-									
	4.3	4.4	160	r	975	u	136								
	.5	.6	1	-		u	976								
E ₉	1.1	1.2	2	b	008	02	000								
	.3	.4	3	f	940	e	923								
	.5	.6	4	r	975	u	136								
	2.1	2.2	5	b	924	-									
	.3	.4	6	r	975	u	136								
	3.1	4.1	7	b	974	f	942								
	4.2	4.3	8	e	933	-									
	4.4	.5	9	r	975	u	136								
	5.1	5.2	170	b	925	-									
	.3	.4	1	r	975	u	136								
E ₉₁	6.1	7.1	2	b	998	e	933								
	7.2	7.3	3	r	975	u	136								
	8.1	8.2	4	b	926	-									
	.3	.4	5	r	975	u	136								
	9.1	9.2	6	b	927	-									
	.3	.4	7	r	975	u	136								
	10.1	10.2	8	b	945	c	978								
	.3	.4	9	b	928	-									
	.5	.6	180	r	975	u	136								
	.7	.8	1	-		u	976								
E ₁₁	1.1	1.2	2	b	999	03	000								
	.3	.4	3	f	944	e	929								
	.5	.6	4	r	975	u	136								
	2.1	2.2	5	b	189	c	978								
	.3	.4	6	b	930	-									
	.5	.6	7	r	975	u	136								
	3.1	3.2	8	b	931	u	949								
			9	075000	-			LC ₀							

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
C ₁	10.1	11.1	200	23	000	43	860								
	11.2	.3	1	43	860	43	860								
	.4	.5	2	43	860	43	860								
	.6	.7	3	43	860	43	860								
	.8	.9	4	43	860	43	860								
	.10	.11	5	43	860	43	860								
	.12	.13	6	43	860	43	860								
	.14	.15	7	43	860	43	860								
	.16	.17	8	43	860	43	860								
	.18	.19	9	43	860	43	860								
	.20	.21	210	43	860	43	860								
	.22	.23	1	43	860	43	860								
	.24	.25	2	43	860	43	860								
	11.26	12.1	3	43	860	33	860								
	12.2	13.1	4	33	860	33	920								
	13.2	.3	5	b	220	k	000								
	.4	.5	6	-		q9	220								
	.6	.7	7	-		u	920								
			8	-		-									
			9	-		-									
C ₂	20.1	21.1	220	50	973	10	842								
	22.1	22.2	1	b	842	b	973								
	.3	.4	2	-		t	225								
	23.1	23.2	3	b	973	q	920								
	24.1	24.2	4	33	920	u	223								
	25.1	26.1	5	43	920	43	920								
	27.1	27.2	6	b	973	q	228								
	28.1	28.2	7	43	920	u	226								
	29.1	29.2	8	33	920	33	920								
	29.3	29.4	9	33	920	u	920								
			230	-		-									
			1	-		-									
			2	-		-									
			3	-		-									
			4	-		-									
			5	-		-									
			6	-		-									
			7	-		-									
			8	-		-									
			9	-		-									
			240	-		-									
			1	-		-									
			2	-		-									
			3	-		-									
			4	-		-									
			5	-		-									
			6	-		-									
			7	-		-									
			8	-		-									
			9	-		-									
			250	-		-									
			1	-		-									
			2	-		-									
			3	-		-									
			4	-		-									
			5	-		-									
			6	-		-									
			7	-		-									
			8	-		-									
			9	-		-									

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
P1.10	31.1	31.2	860	b	899	a	501								
	.3	.4	1	c	899	b	884								
	.5	.6	2	a	501	c	884								
	.7	.8	3	b	891	a	501								
	31.9	31.10	4	c	891	u	872								
P1.11	32.1	33.1	5	50	911	10	008								
	34.1	35.1	6	50	010	l	008								
	35.2	35.3	7	b	010	q	922								
	36.1	36.2	8	50	912	u	870								
	37.1	37.2	9	-		u	905								
	38.1	38.2	870	90	000	b	913								
	.3	.4	1	c	868	u	865								
P1.16	39.1	39.2	2	h	010	50	010								
	.3	.4	3	.3	000	.3	000								
	39.5	40.1	4	c	010	12	000								
	41.1	42.1	5	32	510	b	010								
	42.2	.3	6	l	510	q	878								
	.4	.5	7	-		u	875								
	43.1	43.2	8	42	510	42	510								
	.3	44.1	9	30	510	13	000								
	45.1	45.2	880	l	017	d-	037		M(H ₁)		M(b ₁)				
	.3		1	c	047	-			M(Δ ₁)						
	46.1	46.2	2	b	899	a	914								
	47.1	47.2	3	c	899	u	896								
P1.14	50.1	50.2	4	b99037	c	830						xx	M(b ₂)		829 + l
	51.1	51.2	5	b	884	a	914								
	52.1	52.2	6	c	884	u	884								
	53.1	53.2	7	b	015	c	010								
	.3	.4	8	b	014	a	971								
	.5	.6	9	a	971	a	971								
	53.7	53.8	890	a	971	c	015								
	54.1	54.2	1	b99017	.9	000						xx	M(H ₂)		
	.3	.4	2	c	017	-							M(H ₂)		
	55.1	55.2	3	b	891	a	976								
	56.1	56.2	4	c	891	u	903								
	55.3	55.4	5	-		u	250								
	48.1	48.2	6	b	900	a	972								
	.3	.4	7	c	900	b	901								
	48.5	48.6	8	a	971	c	901								
	49.1	49.2	9	b99017	b	037						xx	M(H ₂)		M(b ₂)
	.3	.4	900	s	036	c	500						M(b ₂₋₁)		
	.5	.6	1	d-	500	c	047								M(Δ ₂)
	49.7	49.8	2	-		u	882								
	56.3	56.4	3	b	892	a	972								
	.5	.6	4	c	892	u	891								
P1.12	57.1	57.2	5	61	000	11	000								
P1.17	58.1	59.1	6	31	010	l	008								
	59.2	.3	7	b	010	q	909								
	.4	59.5	8	-		u	906								
	60.1	60.2	9	41	510	40	510								
	.3	.4	910	-		u	922								
			1	RwhatΔ	probΔΔ										
			2	Rwrong	ΔprobΔ										
			3	-	q8 919										
			4	001001	00 001										
	15.12	15.13	5	x	000	s	971								
	.14	.15	6	c	502	s	502								
	.16	.17	7	08	000	u	265								
P1.15	2.2	2.3	8	30	010	u	865								
P1.18	3A.1	3A.2	9	11	000	u	906								

Block #128

Block #128

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
P1	0.1	1.1	920	31	250	50	977								
	1.2	2.1	1	10	010	u	918								
pl.13	3.1	3.2	2	b	971	s	012								
	.3	.4	3	09	000	h	501								
	.5	.6	4	a	251	c	251								
	.7	.8	5	b	255	a	501								
	3.9	3.10	6	c	255	u	860								
	16.10	16.11	7	k	000	p	971								
	.12	.13	8	x	000	h	502								
	.14	.15	9	a	294	c	294								
	.16	.17	930	b	295	a	502								
	16.18	16.19	1	c	295	u	978								
	16.24	16.25	2	c	387	b	502								
	.26	.27	3	;6	000	a	390								
	.28	.29	4	c	390	g	502								
	.30	.31	5	b	296	a	502								
	.32	.33	6	c	296	b	297								
	16.34	16.35	7	a	502	c	297								
	17.1	18.1	8	31	430	b	011								
	18.2	18.3	9	a	012	k	000								
	.4	.5	940	p	013	x	000								
	.6	.7	1	k	000	b	974								
	18.8	18.9	2	-		t	960								
	19.1	19.2	3	a	975	t	961								
	20.1	20.2	4	a	975	t	956								
	.3	.4	5	r	959	u	958								
	21.1	22.1	6	31	190	b	277								
	22.2	22.3	7	c	503	v	278								
	22.4	23.1	8	w	504	30	860								
	24.1	24.2	9	y	860	z	250								
	.3	.4	950	y	870	z	260								
	.5	.6	1	y	880	z	270								
	25.1	25.2	2	b	503	c	277								
	.3	.4	3	v	504	w	278								
P1.9	26.1	26.2	4	-		-									
	26.3	26.4	5	-		u	300								
P1.7	27.1	27.2	6	r	959	t	958								
	.3	.4	7	30	190	u	954								
P1.8	28.1	28.2	8	31	070	31	130								
	.3	.4	9	-		-									
P1.5	29.1	29.2	960	30	070	u	954								
pl.6	30.1	30.2	1	31	070	30	130								
	.3	.4	2	-		u	954								
	7.3	7.4	3	b	965	a-	971								
	7.5	7.6	4	a-	972	c	965								
	8.1	8.2	5	l	047	b	046								
	8.3	8.4	6	-1	000	c	500								
	9.1	9.2	7	d-	500	u	251								
	13.3	13.4	8	b	256	a	972								
	13.5	13.6	9	c	256	u	255								
			970	099999	999999										
			1	-		00	001								
			2	00	001	-									
			3	-		re	Δ028								
			4	-		00	054								
			5	-		00	060								
			6	001001	-										
			7	BRtype	ΔtimeR										
	16.20	16.21	8	b	502	;6	000								
	16.22	16.23	979	a	387	u	932								

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
P1.0	4.1	4.2	250	b	972	04	000								
P1.1	5.1	5.2	1	c	99037	-						xx	$M(\Delta l)$		
	6.1	6.2	2	b	251	a	976								
	7.1	7.2	3	c	251	u	963								
P1.2	10.1	10.2	4	33	310	-									
P1.3	11.1	11.2	5	899047	m	047						xx	$M(\Delta l)$		$M(\Delta l)$
	11.3	12.1	6	c	047	b	255						$M(\Delta l)$		
	12.2	12.3	7	a	971	a	976								
	13.1	13.2	8	c	255	u	968								
P1.4	14.1	15.1	9	33	370	b	501								
	15.2	.3	260	a	286	c	286								
	.4	.5	1	s	014	09	000								
	.6		2	a	284	c	284								
	.8		3	l	014	p	012								
	15.10	15.11	4	x	000	u	915								
	15.18	15.19	5	a	296	c	296								
	.20	.21	6	b	015	s	971								
	.22	.23	7	h	014	k	000								
	.24	.25	8	p	012	x	000								
	.26	.27	9	x	000	h	502								
	.28	.29	270	a	285	c	285								
	.30	15.31	1	b	286	a	502								
	15.32	16.1	2	c	286	s	016								
	16.2	.3	3	s	012	09	000								
	.4	.5	4	a	501	a	294								
	.6	.7	5	c	294	b	012								
	16.8	16.9	6	a	012	u	927								
			7	RxsecΔ	calcΔ				P0.1						
			8	starti	ng''''				P0.2						
			9	ending	''''''				P0.3						
			280	RxsecΔ	errΔJR				P4.1						
			1	z91650	z	740			D1.1						
			2	a- 630	h	630			D1.2						
			3	c	631	b	366		D1.3						
			4	a97630	a	631			D1.4			-G			
			5	k	000	s	630		D1.5						+2(3+G)L
			6	b99500	s	631			D1.6						+2(3+G)L
			7	l	499	m	077		D3.1			-L+1			
			8	-	-	-			D3.2						
			9	-	-	-			D3.3						
			290	-	-	-			D4.1						
			1	-	-	-			D4.2						
			2	-	-	-			D4.3						
			3	y4 510	z	500			D2.1						
			4	899473	d	630			D5.1			-4L+1			+2L
			5	-	c	630			D5.2						+2L
			6	099900	d	630			D5.3			-2GL+1			+6L
			7	-	c	630			D5.4						+6L
			8	b	630	l	631		D6.1						
			9	w4 570	-	-			D7.1						
X0	0.1	0.2	300	50	277	50	278								
	1.1	1.2	1	12	000	32	510								
	2.1	2.2	2	c	495	c	495								
X0.1	3.1	3.2	3	b	495	l	010								
	3.3	3.4	4	-	-	q	324								
X1	10.1	10.2	5	a	467	c	495								
	11.1	11.2	6	b	384	a	467								
	11.3	12.1	7	c	384	b	281								
	12.2	13.1	8	c	313	c	630								
	13.2	14.1	309	c	631	v	630								

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
	14.2	14.3	310	w	632	w	634								
	14.4	14.5	1	w	636	w	638								
	15.1	15.2	2	y	630	z	640								
x _{1.1}	16.1	16.2	3	-	-	-	-								
	17.1	17.2	4	b	313	a	478								
x _{1.3}	18.1	18.2	5	c	313	u	313								
x _{1.2}	19.1	19.2	6	v	282	w	288								
	1A.1	1A.2	7	v	284	w	290								
	.3	.4	8	b	286	c	292								
x _{0.2}	4.1	4.2	9	a	467	h	494								
	5.1	5.2	320	l	015	t	330								
	.3	.4	1	r	449	u	334								
			2	r	449	u	339								
	9.1	9.2	3	b	494	u	319								
x _{0.3}	6.1	6.2	4	55	570	55	570								
	.3	.4	5	62	000	65	000								
	7.1	7.2	6	50	277	50	279								
P ₂	8.1	8.2	7	33	920	31	920								
	8.3	8.4	8	50	979	b	016								
	8.5	8.6	9	-6	000	u	479								
x _{0.4}			330	r	449	u	421								
			1	r	449	u	450								
			2	r	449	u	377								
			3	-	-	u	303								
x ₂	20.1	20.2	4	y5	520	z	500								
	21.1	21.2	5	b	334	a	476								
	22.1	22.2	6	c	334	u	449								
	23.1	23.2	7	b	293	32	510								
	.3	.4	8	-	-	u	336								
x ₃	30.1	30.2	9	b	287	c	351								
x _{3.1}	31.1	31.2	340	a	467	c	496								
	.3	.4	1	b	467	c	497								
	32.1	32.2	2	b	288	h	352								
	.3	.4	3	h	367	a	469								
	.5	.6	4	c	354	b	289								
	32.7	33.1	5	c	368	b	351								
	33.2	.3	6	a	468	h	351								
	.4	.5	7	h	366	a-	467								
	33.6	33.7	8	c	353	-	-								
x _{3.2}	34.1	34.2	9	l	011	b	497								
	.3	.4	350	-	-	t	366								
	35.1	35.2	1	-	-	-	-								
	.3	.4	2	-	-	-	-								
	.5	.6	3	-	-	-	-								
	35.7	35.8	4	-	-	-	-								
	36.1	36.2	5	b	353	a	467								
x _{3.4}	37.1	37.2	6	h	351	h	366								
	.3	.4	7	a	467	c	353								
	38.1	38.2	8	b	354	a	469								
	.3	.4	9	h	352	h	367								
	.5	.6	360	a	469	c	354								
	.7	.8	1	b	368	a	480								
	38.9	39.1	2	c	368	l	012								
	39.2	39.3	3	b	497	q	370								
	3A.1	3A.2	4	a	467	c	497								
	.3	.4	5	-	-	u	349								
x _{3.3}	3B.1	3B.2	6	-	-	-	-								
	.3	.4	7	-	-	-	-								
	3B.5	3C.1	8	-	-	-	-								
	3C.2	3C.3	369	a	467	u	356								

Block #131

Block #132

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
	45.5	45.6	430	.3	000	q	435								
	46.1	46.2	1	50	280	50	500								
	.3	.4	2	50	495	90	000								
	.5	.6	3	90	000	u	433								
	44.3	44.4	4	b	500	u	424								
x4.2	47.1	47.2	5	b	292	a	470								
	.3	.4	6	a	474	-									
	48.1	48.2	7	c	292	u	439								
	49.1	49.2	8	-		u	449								
	48.3	48.4	9	b	291	a	470								
	.5	.6	440	c	291	b	290								
	.7	.8	1	a	471	c	290								
	48.9	48.10	2	-		u	421								
x7	70.1	70.2	3	c	501	v	500								
	71.1	71.2	4	w	450	-									
	72.1	72.2	5	b	444	a	477								
	73.1	73.2	6	c	444	u	420								
	74.1	74.2	7	b	299	55	570								
	74.3	74.4	8	-		u	446								
			9	-		-									
x5	50.1	50.2	450	v	294	w	452								
	.3	.4	1	v	296	w	482								
x5.1	51.1	51.2	2	-		-									
	.3	.4	3	-		-									
	52.1	52.2	4	b	452	a	474								
	53.1	53.2	5	a	467	u	461								
	52.3	52.4	6	-		u	481								
			7	-		-									
	55.1	55.2	8	b	482	a	475								
	56.1	56.2	9	a	467	u	464								
	55.3	55.4	460	-		u	449								
	53.3	53.4	1	c	452	b	453								
	.5	.6	2	a	467	c	453								
	53.7	53.8	3	-		u	452								
	56.3	56.4	4	c	482	b	483								
	.5	.6	5	a	467	c	483								
	56.7	56.8	6	-		u	481								
			7	-		00	001								
			8	00	001	-									
			9	00	001	00	001								
			470	-		00	002								
			1	00	002	00	002								
			2	00	002	00	001								
			3	01	000	-									
			4	001000	-										
			5	00	100	-									
			6	01	010	-									
			7	002002	-										
			8	001010	00	010									
	8.7	8.8	9	c	016	u	920								
			480	00	002	-									
x5.2		54.0	1	-		l	475								
	54.1	54.2	2	-		-									
	.3	.4	3	-		-									
	54.5	54.6	4	-		u	458								
			5	-		00	003								
			6	-		-									
			7	-		-									
			8	-		-									
			9	-		-									

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
P ₂₀₁	00.1	01.1	920	33	770	33	860								
	01.2	02.1	1	50	978	l	920								
	02.2	02.3	2	r	859	q2	856								
P ₂	11.1	11.2	3	b	933	a-	012								
	11.3	12.1	4	c	933	c	998								
	12.2	12.3	5	c	994	c	829								
P ₂₁₁	13.1	13.2	6	b	998	a-	958								
	13.3	13.4	7	h	998	-									
	13.5	13.6	8	l	012	t	960								
	14.1	14.2	9	b	830	s-	829						M(b _l)		M(b _{l-1})
	14.3	15.1	930	c	993	l	786								
	15.2	.3	1	m	993	k	000								
	.4	.5	2	-		m	770								M(s _f l)
	.6	.7	3	c	990	l	829								M(b _l)
	.8	.9	4	d-	990	h	980								M(Y _l)
	16.1	16.2	5	a-	994	c	994								
	17.1	17.2	6	b	929	a-	959								
	.3	.4	7	c	929	b	932								
	.5	.6	8	a-	958	c	932								
	.7	.8	9	b	934	a-	958								
			940	c	934	u	926								
			1	-		-									
			2	-		-									
			3	-		-									
			4	-		-									
			5	-		-									
			6	-		-									
			7	-		-									
			8	-		-									
			9	-		-									
			950	-		-									
			1	-		-									
			2	-		-									
			3	-		-									
			4	-		-									
			5	-		-									
			6	-		-									
			7	-		-									
			8	-		00 001									
			9	00	001	00	001								
P ₂	20.1	20.2	960	33	070	50	977								
	21.1	21.2	1	r	859	q2	856								
	22.1	22.2	2	64	000	b	017								
	.3	.4	3	c	880	b	018								
	.5		4	c	881	b	019								
	.7		5	c	882	b	020								
	.9		6	c	883	b	021								
	.11		7	c	884	b	022								
	.13		8	c	885	b	023								
	.15		9	c	886	b	024								
	.17		970	c	887	b	025								
	.19		1	c	888	b	026								
	.21		2	c	889	v	782								
	.23		3	w	896	-									
	.25		4	s-	781	c	893								
	22.27	22.28	5	b	008	c	890								
	23.1	23.2	6	33	920	u	920								
			7	Rpre	l	mΔ2-2'									
			8	Rpre	l	mΔ2-1'									
			9	Rpre	l	mΔ2-0'									

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
S20	20.1	20.2	860	50	935	c	990								
	.3	.4	1	v	936	w	928								
	.5	.6	2	r	934	u	928								
	21.1	21.2	3	v	938	w	928								
	.3	.4	4	r	934	u	928								
	22.1	22.2	5	45	920	b	008								
	.3	.4	6	a-	061	c	008								
	.5	.6	7	b	990	u	012								
	23.1	23.2	8	-	-	-	-								
	.3	.4	9	-	-	-	-								
S21	24.1	24.2	870	b	929	s-	061								
	24.3	25.1	1	c	929	b	928								
	25.2	.3	2	a	061	a	065								
	.4	.5	3	c	928	u	928								
	26.1	26.2	4	-	-	-	-								
			5	ΔΔres	cale''				RESCALE						
			6	099400	b	992			D ₂₀						
			7	-1 000	c	992			D ₂₁						
			8	099900	b	000			D ₂₂						
			9	-1 000	c	000			D ₂₃						
			880	-	-	-	-		H ₁						
			1	-	-	-	-		H ₂						
			2	-	-	-	-		:						
			3	-	-	-	-		:						
			4	-	-	-	-		H _L						
			5	-	-	-	-								
			6	-	-	-	-								
			7	-	-	-	-								
			8	-	-	-	-								
			9	-	-	-	-								
			890	-	-	-	-		PROB. #						
			1	b	000	:1	000		D ₁						
			2	b	000	:1	000		D ₂						
			3	-	-	-	-		c m-1						
			4	-	-	-	-		μ m-1						
			5	01	000	-	-		F m ₁ -1						
			6	-	-	-	-		δ						
			7	-	-	-	-		ε						
			8	b99zzz	a-	000			D ₁₀₀						
			9	-0	000	h	991		D ₁₀₁						
			900	l	895	m	000		D ₁₁₀						
			1	b	000	u	zsz		D ₁₁₁						
			2	b	000	-2	000		D ₁₃₀						
			3	c	000	c	000		D ₁₃₁						
			4	b	000	-2	000		D ₁₃₂						
			5	c	000	c	000		D ₁₃₃						
			6	Rsource	e''R''				P ₁						
			7	Rconve	rged'R				P ₂						
			8	Rcriti	cal'R'				P ₃						
			9	b	898	c	911								
S10	100.1	100.2	910	c	999	50	906								
	.3	.4	1	-	-	-	-								
	101.1	101.2	2	c	999	b	911								
	102.1	102.2	3	a	069	c	911								
	.3	.4	4	-	-	u	911								
	104.1	104.2	5	43	920	s	008								
	.3	.4	6	09	000	01	000								
	.5	.6	7	a	899	h	919								
	.7	105.1	8	c	924	b	063								
	106.1	106.2	9	-	-	-	-								
S100															

CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
			070	-		10	000	10 ⁻⁶							
			1	00-999	00-999										
			2	a96zz+	c 980			D ₃₀							
			3	v4 920	b ψ wz			D ₃₁							
			4	a99zz+	c 980			D ₄₀				A9X	X = 6-G		
			5	w4 860	b ψ wz			D ₁₁₀							
			6	-	-			X							
			7	00 002	-			2 · 10 ⁻⁵							
			8	c 000	g 000			C ₅				M(u _{1,1})		M(v _{1,1})	
			9	m 000	f 000			C ₆				M(Sf _{1,0})		M(SIN _{1,0})	-1
			080	a- 000	c 000			D ₅₀				1 + M(ℓ _{L,H})		1 + M(ℓ _{L,H})	
			1	a- 000	c 000			D ₅₁				1 + M(Q _{L,H})		1 + M(Q _{L,H})	
			2	a- 000	c 000			D ₆₀				1 + M(P _L)		1 + M(P _L)	
			3	a- 000	c 000			D ₆₁				1 + M(Y _L)		1 + M(Y _L)	
			4	-	-			g(L)				g ₃ (L)			
			5	-	-			W				f ₆ (L,H)			
			6	m99984	c zz+			D ₅₄				M9X	X = 10-G		
			7	l 992	m 000			D ₁₀							1 + M(u _{L,H})
			8	d 990	a 000			D ₁₁							1 + M(v _{L,H})
			9	m 000	f 000			D ₇₀				M(IS _{f1})		M(ISIN ₁)	
			090	-	-							D ₅₂			
			1	-	-							D ₅₃			
			2	-	-							D ₆₂			
			3	-	-							D ₆₃			
			4	-	-							g(L)			
			5	-	-							f ₆ (L,h)			
			6	-	-							H _{L,h}			
			7	-	-							s _{L,h}			
			8	-	-							$\Delta \ell_{-1} / \Delta \ell$			
			9	-	-							β_j			
			100	-	-							B			
			1	-	-							N [*]			
			2	-	-							L [*]			
			3	-	-							P [*]			
			4	-	-							c ^m			
I ₅₄	57.1	57.2	5	b 991	-							C _{57.3}		C _{57.4}	
	.3	.4	6	-	-										
	58.1	58.2	7	b 990	;6 000										
	.3	.4	8	a- 990	a- 106										
	.5	.6	9	c 106	u 117										
I ₅	50.1	50.2	110	b 090	a- 071										
	.3	.4	1	h 090	c 106										
	.5	.6	2	b 091	a- 071										
	.7	.8	3	h 091	c 125										
	.9	.10	4	l 992	b 101										
I ₅₁	51.1	51.2	5	a- 102	c 990										
	.3	.4	6	b 086	c 117										
I ₅₂	52.1	52.2	7	-	-							C _{52.1}		C _{52.2}	
	53.1	53.2	8	b 117	a 069										
	54.1	54.2	9	c 117	u 105										
I ₅₃	55.1	55.2	120	b 106	;6 000										
	.3	56.1	1	c 122	b 991										
	56.2	56.3	2	-	-							C _{56.2}		C _{56.3}	
I ₆₁	59.1	59.2	3	m 099	u 125										
	.3	.4	4	l 064	d- 990							TEMPORARY			
	62.1	62.2	5	-	-							C _{62.1}		C _{62.2}	
	63.1	63.2	6	-	u 020										
I ₁	10.1	10.2	7	b 130	s- 061			K ₂₀							
	.3	.4	8	c 130	b 132										
	10.5	10.6	9	s- 061	c 132										

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
P221	24.1	24.2	920	b	014	s-	978								
	.3	.4	1	h	997	k	000								
	.5	.6	2	b	010	c	103								
	.7	.8	3	b	012	c	102								
	.9	.10	4	b	784	c	101								
	.11	.12	5	p	102	j	995								
	.13	.14	6	p	101	j	996								
	.15	24.16	7	b	785	a-	101								
	24.17	25.1	8	h	990	a-	878								
	25.2	25.3	9	c	878	b	879								
	.4	.5	930	s-	990	c	879								
	.6	.7	1	b	990	a-	101								
	.8	25.9	2	s-	979	h	990								
	26.1	26.2	3	06	000	a-	903								
	.3	.4	4	c	903	b	990								
	.5	.6	5	a-	101	a-	102								
	.7	.8	6	h	990	061000									
	.9	.10	7	a-	892	c	892								
	.11	.12	8	b	990	a-	996								
	26.13	.14	9	a-	995	a-	995								
	.15	.16	940	h	990	a-	900								
	.17	.18	1	c	900	b	990								
	.19	.20	2	06	000	a-	905								
	.21	.22	3	c	905	b	990								
	.23	.24	4	a-	102	h	990								
	.25	.26	5	06	000	a-	891								
	.27	.28	6	c	891	b	990								
	.29	.30	7	06	000	a-	902								
	.31	.32	8	c	902	b	990								
	26.33	26.34	9	a-	903	c	903								
P222	27.1	27.2	950	b	990	a-	101								
	.3	.4	1	a-	102	h	990								
	.5	.6	2	06	000	a-	901								
	.7	.8	3	c	901	b	990								
	.9	.10	4	a-	905	c	905								
	.11	.12	5	b	990	06	000								
	.13	.14	6	a-	904	c	904								
	.15	.16	7	b	990	a-	979								
	27.17	27.18	8	a-	898	c-	898								
	28.1	28.2	9	b	979	s-	102								
	.3	.4	960	09	000	a-	898								
	.5	.6	1	c	898	s-	102								
	.7	.8	2	a-	977	u	974								
	28.13	28.14	3	c	901	b	904								
	.15	.16	4	a-	991	c	904								
	.17	.18	5	s-	101	09	000								
	.19	.20	6	a-	991	-									
	.21	.22	7	a-	902	c	902								
	.23	.24	8	s-	990	a-	101								
	.25	.26	9	s-	102	a-	785								
	.27	.28	970	08	000	a-	878								
	28.29	29.1	1	c	878	l	978								
	29.2	.3	2	r	859	q2	856								
	2A.1	2A.2	3	33	920	u	920								
	28.9	28.10	4	09	000	h	991								
	28.11	28.12	5	a-	901	u	963								
			6	-	-										
			7	-	-	00	099								
			8	-	-	00	003								
			9	-	-	00	001								

Block #137

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
P ₂ ³	30.1	30.2	920	b	922	k	000								
	.3	.4	1	r	859	q2	856								
	31.1	31.2	2	54	860	50	940								
	32.1	33.1	3	33	010	b	930								
	33.2	.3	4	a-	102	c	930								
	.4	.5	5	b	932	a-	102								
P ₂₃₁	.6	34.1	6	c	932	b	780								
	34.2	.3	7	c	100	b	787								
	.4	.5	8	c	085	u	941								
	35.3	35.4	9	m	786	-									
	.5	.6	930	c	990	l	829								M(b ₁)
	.7	.8	1	d-	990	c	786								
	36.1	36.2	2	-		b	879								M(h ₁)
	.3	.4	3	09	000	k	000								
	37.1	37.2	4	d-	993	k	000								
	38.1	38.2	5	m	786	c	084								
	39.1	39.2	6	r	859	q2	856								
	3A.1	3A.2	7	b	781	c	104								
P ₂₃₂	3B.1	3B.2	8	33	920	u	920								
			9	00	050	-									
			940	Rpre	41	m	Δ2-3'								
	34.6	34.7	1	b	788	c	076								
	35.1	35.2	2	l	939	u	929								
			3	-	-	-	-								
			4	-	-	-	-								
			5	-	-	-	-								
			6	-	-	-	-								
			7	-	-	-	-								
			8	-	-	-	-								
			9	-	-	-	-								
			950	-	-	-	-								
			1	-	-	-	-								
			2	-	-	-	-								
			3	-	-	-	-								
			4	-	-	-	-								
			5	-	-	-	-								
			6	-	-	-	-								
			7	-	-	-	-								
			8	-	-	-	-								
			9	-	-	-	-								
			970	-	-	-	-								
			1	-	-	-	-								
			2	-	-	-	-								
			3	-	-	-	-								
			4	-	-	-	-								
			5	-	-	-	-								
			6	-	-	-	-								
			7	-	-	-	-								
			8	-	-	-	-								
			9	-	-	-	-								

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
S ₂	27.1	27.2	010	45	920	34	920								
	28.1	28.2	1	44	920	u	920								
S ₂₂	29.1	29.2	2	35	920	35	920								
	.3	.4	3	-	-	-	-								
S ₃	30.1	30.2	4	b	072	c	038								
	.3	.4	5	r	045	u	032								
	31.1	31.2	6	l	980	m	981								
	.3	.4	7	a-	070	a-	070								
	.5	.6	8	l	064	c	990								
	31.7	31.8	9	d-	990	c	981								
	32.1	32.2	020	b	032	k	000								
	.3	.4	1	r	859	q1	856								
	.5	.6	2	-	-	-	-								
	S ₃₁	33.1	33.2	3	v4	920	b	ψwz							
	.3	.4	4	a	023	a	069								
	34.1	34.2	5	-	-	u	027								
	35.1	35.2	6	b	073	35	920								
	36.1	36.2	7	c	023	w	990								
	37.1	37.2	8	b	990	s-	991								
	.3	.4	9	c	990	m	990								
	.5	.6	030	-	-	-	-								
	40.1	40.2	1	b	074	c	038								
	41.1	41.2	2	r	030	u	023								
	42.1	42.2	3	w	096	l	104								
	43.1	43.2	4	r	030	u	023								
	44.1	44.2	5	p	097	01	000								
	.3	.4	6	k	000	w	098								
	45.1	45.2	7	r	030	u	023								
	46.1	46.2	8	-	-	-	-								
	47.1	47.2	9	b	038	a	069								
	48.1	48.2	040	c	038	u	037								
	49.1	49.2	1	b	100	-4	000								
	.3	.4	2	c	990	l	982								
	.5	.6	3	d-	990	a-	981								
	.7	.8	4	c	981	-	-								
	49.9	49.10	5	-	-	-	-								
I ₃₁	30.1	30.2	6	m	094	c	990								
	31.1	31.2	7	l	063	d	990								
	32.1	32.2	8	h	997	u	022								
	I ₃₂	33.1	33.2	9	r	013	u	010							
I ₃	34.1	34.2	050	l	992	u	046								
	I ₆	60.1	60.2	1	b	092	a-	071							
	.3		2	h	092	c	106								
	.5		3	b	093	a-	071								
	.7		4	h	093	c	125								
	60.9	60.10	5	l	996	u	115								
I ₄₁	40.1	40.2	6	a	997	a	996								
	41.1	41.2	7	h	996	u	022								
I ₄₂	42.1	42.2	8	r	013	u	010								
	I ₄	43.1	43.2	9	b	997	u	056							
			060	00	001	00	001								
			1	-	-	00	001								
			2	00	001	-	-								
			3	01	000	-	-								
			4	001000	-	-	-								
			5	00	100	-	-								
			6	02	000	-	-								
			7	05	000	-	-								
			8	002000	-	-	-								
			9	001001	00	001	-								

Block #139

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
P ₂	0.1	1.1	920	50	976	b	979								
	1.2	1.3	1	s-	997	h	991								
	1.4	2.1	2	09	000	a-	074								
	2.2	3.1	3	c	074	b	061								
	3.2	3.3	4	s-	997	09	000								
	4.1	4.2	5	a-	086	c	086								
	5.1	5.2	6	b	785	06	000								
	.3	.4	7	a-	078	c	078								
	.5	.6	8	b	785	a-	784								
	.7	6.1	9	h	990	a-	078								
	6.2	6.3	930	c	078	b	990								
	.4	.5	1	a-	087	c	087								
	7.1	7.2	2	b	990	a-	784								
	.3	.4	3	s-	061	h	990								
	8.1	8.2	4	06	000	a-	079								
	.3	.4	5	c	079	b	990								
	.5	.6	6	a-	061	a-	088								
	.7	9.1	7	c	088	b	990								
	9.2	.3	8	a-	102	a-	784								
	.4	10.1	9	h	990	a-	079								
	10.2	11.1	940	c	079	b	990								
	11.2	.3	1	a-	784	a-	102								
	.4	.5	2	a-	061	h	990								
	.6	.7	3	a-	080	c	080								
	12.1	12.2	4	b	990	a-	784								
	.3	.4	5	a-	102	h	990								
	13.1	13.2	6	06	000	a-	080								
	.3	14.0	7	c	080	l	991								
	14.1	.2	8	p	784	u	973								
	14.9	14.10	9	a-	995	a-	102								
	.11	.12	950	a-	102	h	990								
	15.1	15.2	1	a-	082	c	082								
	16.1	16.2	2	b	990	s-	061								
	.3	.4	3	a-	089	c	089								
	17.1	17.2	4	b	990	a-	102								
	18.1	18.2	5	06	000	u	971								
P240	19.1	19.2	6	b	990	a-	995								
	19.3	20.1	7	h	990	a-	061								
	.2	.3	8	06	000	a-	089								
	20.4	21.1	9	c	089	b	990								
	21.2	21.3	960	a-	784	a-	102								
	.4	22.1	1	h	990	a-	081								
	22.2	22.3	2	c	081	b	990								
	.4	.5	3	06	000	a-	081								
	22.6	23.1	4	c	081	b	990								
	23.2	.3	5	a-	102	h	990								
	.4	.5	6	a-	083	c	083								
	.6	.7	7	b	990	06	000								
	.8	.9	8	a-	083	c	083								
	23.10	23.11	9	l	976	q7	856								
	24.1	24.2	970	33	920	u	920								
	18.3	18.4	1	a-	082	c	082								
	.5	.6	2	-	-	u	956								
	14.3	14.4	3	x	000	s-	785								
	.5	.6	4	c	991	s-	991								
	14.7	14.8	5	-	-	u	949								
			6	Rprel1	m/2-4R			PRELIM	2-4						
			7	-	-										
			8	-	-										
			9	-0 000	00 003					-3*					

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
P ₂ ⁵	50.1	50.2	920	y	770	z	910								
	.3	.4	1	b	785	c	900								
	51.1	51.2	2	y	970	z	310								
	.3	.4	3	z	320	z	330								
	.5	.6	4	z	340	z	350								
	.7	.8	5	z	360	z	370								
	.9	.10	6	z	380	z	390								
	.11	.12	7	z	400	z	410								
	.13	.14	8	z	420	z	430								
	.15	.16	9	z	440	z	450								
	.17	.18	930	z	460	z	470								
	.19	.20	1	z	480	z	490								
	.21	.22	2	z	500	z	510								
	.23	.24	3	z	520	z	530								
	.25	.26	4	z	540	z	550								
	.27	.28	5	z	560	z	570								
	.29	.30	6	z	580	z	590								
	.31	.32	7	z	600	z	610								
	.33	.34	8	z	620	z	630								
	.35	.36	9	z	640	z	650								
	51.37	51.38	940	z	660	z	670								
	.39	.40	1	z	680	z	690								
	.41	.42	2	z	700	z	710								
	.43	.44	3	z	720	z	730								
	.45	.46	4	z	740	z	750								
	.47	.48	5	z	760	z	770								
	.49	.50	6	z	780	z	790								
	.51	.52	7	z	800	z	810								
	51.53	51.54	8	z	820	z	830								
	52.1	52.2	9	b	900	a-	996								
	.3	.4	950	a-	995	a-	995								
	.5	.6	1	a-	101	a-	101								
	.7	.8	2	a-	101	a-	101								
	.9	.10	3	a-	102	a-	102								
	.11	.12	4	a-	102	a-	102								
	52.13	52.14	5	h	990	u	960								
P ₂₅₀	53.1	53.2	6	k	000	c	840								M _{53(x)}
	54.1	54.2	7	b	956	a-	965								
	.3	55.1	8	c	956	b	990								
	55.2	.3	9	a-	965	h	990								
	56.1	56.2	960	l	967	t	956								
	57.1	57.2	1	33	130	64	000								
	58.1	58.2	2	b	964	k	000								
	.3	.4	3	r	859	q2	856								
	59.1	59.2	4	33	920	u	920								
			5	-	-	00	001								
			6	00	001	-	-								
			7	-	-	00	840								
			8	-	-	-	-								
			9	-	-	-	-								
			970	-	-	-	-								
			1	-	-	-	-								
			2	-	-	-	-								
			3	-	-	-	-								
			4	-	-	-	-								
			5	-	-	-	-								
			6	-	-	-	-								
			7	-	-	-	-								
			8	-	-	-	-								
			9	-	-	-	-								

Block #141

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
I ₁₁	11.1	11.2	130	-	-	-	-					←	C _{11.1}	C _{11.2}	→
	11.3	12.1	1	c	990	l	064								
	12.2	12.3	2	-	-	-	-					←	C _{12.2}	C _{12.3}	→
	13.1	13.2	3	h	993	u	144								
I ₁₂	14.1	14.2	4	r	013	u	010								
	.3	.4	5	-	-	u	130								
I ₇	70.1	70.2	6	l	981	m	996								
	.3	71.1	7	c	990	l	983								
	71.2	71.3	8	-	-	-	-					←	C _{71.2}	C _{71.3}	→
	71.4	71.5	9	c	124	u	305								
	72.2	72.3	140	d-	990	s-	991								
	.4	73.1	1	c	997	b	138								
	73.2	.3	2	a-	071	c	138								
	74.1	74.2	3	b	995	u	144								
I ₁₁	110.1	110.2	4	c	991	b	008								
	.3	111.1	5	c	990	v	990								
	111.2	112.1	6	w4	860	b	ψwz					←	C _{111.2}	C _{112.1}	→
	112.2	112.3	7	a	069	a	146								
I ₁₁₁	113.1	113.2	8	c	146	u	020								
	114.1	114.2	9	b	075	56	860								
	.3	.4	150	-	-	u	148								
I ₉	90.1	90.2	1	s-	096	s-	061								
	.3	.4	2	h	990	06	000								
	.5	.6	3	a	990	a-	283								
	90.7	91.1	4	c	283	l	992								
	91.2	91.3	5	m	981	c	990								
	91.4	.5	6	l	065	d-	990								
	.6	.7	7	s-	994	c	991								
	92.1	92.2	8	b	993	s-	992								
	92.3	92.4	9	k	000	m	068								
	92.5	93.1	160	c	990	l	094								
	93.2	.3	1	m	991	c	991								
	.4	.5	2	m	990	c	990								
	94.1	94.2	3	l	063	d-	991								
	.3	.4	4	c	991	l	980								
	.5	.6	5	d-	990	s-	991								
	.7	95.1	6	c	982	l	102								
	95.2	.3	7	b	998	q	020								
I ₂	20.1	20.2	8	b	982	s-	995								
	.3	.4	9	s-	997	l	000								
	.5	.6	170	l	2 000	k	000								
	21.1	21.2	1	b	070	t	020								
	22.1	22.2	2	b	191	a-	998								
	.3	23.1	3	c	990	50	990								
	24.1	24.2	4	b	062	t	020								
	25.1	25.2	5	50	191	u	000								
J ₂	3.1	3.2	6	65	000	56	860								
	4.1	5.1	7	34	920	56	860								
	6.1	6.2	8	33	860	u	909								
I ₀	0.1	0.2	9	y	080	z	090								
	.3	.4	180	b	087	c	130								
	.5	.6	1	b	088	c	132								
	.7	.8	2	b	089	c	138								
	.9	.10	3	-	-	q	298								
	.11	.12	4	r	045	u	031								
	1.1	1.2	5	r	022	u	127								
	.3	.4	6	r	022	u	151								
	.5	.6	7	b	982	c	995								
	.7	.8	8	r	022	u	282								
	1.9	1.10	9	r	022	u	050								

Block #142

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
P252	5A.1	5A.2	920	b	900	a-	101								
	.3	.4	1	a-	101	h	990								
	.5	.6	2	a-	935	c	935								
	.7	.8	3	b	990	a-	101								
	.9	.10	4	a-	102	a-	996								
	.11	.12	5	a-	995	a-	995								
	5A.13	5A.14	6	a-	941	c	941								
	5B.1	5B.2	7	33	190	35	250								
P253	5C.1	5C.2	8	b	956	c	998								
P254	5D.1	5D.2	9	c	999	l	994								
	5E.1	5E.2	930	b	910	-2	000						$M(S_{\ell})$		
	.3	.4	1	c	990	d-	990								
	.5	.6	2	c	990	b	980								$M(Y_{\ell}^0)$
	.7	.8	3	-2	000	c	991								
	5E.9	5E.10	4	d-	991	c	991								
P255	5F.1	5F.2	5	b	990	c	000		D_{250}^b						$M(S_{\ell, b})$
	.3	.4	6	b	999	a-	956								
	.5	.6	7	h	999	-									
	5G.1	5G.2	8	l	880	t	941						$M(H_{\ell})$		
	5H.1	5H.2	9	b	935	a-	956								
	.3	.4	940	c	935	u	935								
P256	5J.1	5J.2	1	b	991	c	000		D_{251}^p						$M(IS_{\ell})$
	5K.1	5K.2	2	b	998	a-	956								
	.3	.4	3	h	998	-									
	5L.1	5L.2	4	l	102	t	952								
	5M.1	5M.2	5	b	930	a-	957								
	.3	.4	6	c	930	b	932								
	.5	.6	7	a-	956	c	932								
	.7	.8	8	b	938	a-	957								
	.9	.10	9	c	938	b	941								
	.11	.12	950	a-	956	c	941								
	.13	.14	1	-		u	958								
P257	5N.1	5N.2	2	b	954	k	000								
	.3	.4	3	r	859	q2	856								
	5P.1	5P.2	4	b	956	u	960								
	5Q.1	5Q.2	5	35	920	u	220								
			6	-		00	001		I^*						
			7	00	001	-			$\cdot 1$						
P258	5M.15	5M.16	8	b	935	a-	956								
	5M.17	5M.18	9	c	935	u	929								
	5P.3	5P.4	960	a-	956	c	008								
	.5	.6	1	b	956	u	955								
			2	-		-									
			3	-		-									
			4	-		-									
			5	-		-									
			6	-		-									
			7	-		-									
			8	-		-									
			9	-		-									
			970	-		-									
			1	-		-									
			2	-		-									
			3	-		-									
			4	-		-									
			5	-		-									
			6	-		-									
			7	-		-									
			8	-		-									
			9	-		-									

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
	2.1	2.2	190	c	996	u	192								
	.3	.4	1	Rba	Δc	k	$\Delta \Delta \Delta 01$								
	.5	.6	2	r	022	u	110								
	3.1	3.2	3	b	993	u	296								
	3.7	3.8	4	b	096	s-	061								
	3.9	3.10	5	h	096	k	000								
	.11	.12	6	-		q	201								
	.13	.14	7	r	022	u	127								
	.15	.16	8	r	022	u	050								
	.17	.18	9	r	022	u	059								
α_3	.19	.20	200	-		u	192								
	3.21	3.22	1	r	022	u	050								
	4.1	4.2	2	l	067	m	997								
	.3	.4	3	c	997	-									
	.5	.6	4	r	022	u	059								
	.7	.8	5	r	022	u	144								
	.9	.10	6	r	022	u	136								
	.11	.12	7	r	022	u	110								
	.13	.14	8	r	022	u	051								
	5.1	5.2	9	l	098	m	094								
	.3	.4	210	c	990	l	063								
	.5	.6	1	d-	990	c	094								
	.7	.8	2	c	982	b	998								
	.9	.10	3	s-	061	h	998								
	5.11	5.12	4	k	000	u	183								
	5.21	5.22	5	r	022	u	144								
J0	0.1	0.2	6	b	999	a-	061								
	.3	.4	7	l	982	-									
	.5	.6	8	r	859	q6	856								
	1.1	1.2	9	l	103	t	176								
J1	2.1	2.2	220	c	999	-									
00	0.1	0.2	1	b	078	h	258								
	.3	.4	2	b	079	c	283								
α_1	1.1	1.2	3	a-	061	c	998								
	.3	.4	4	r	022	u	014								
	.5	.6	5	r	022	u	280								
	2.1	3.1	6	c	985	l	061								
	3.2	3.3	7	b	998	q	249								
	4.1	4.2	8	l	098	m	996								
	4.3	4.4	9	h	996	m	980								
	4.5	.6	230	-1	000	h	987								
	.7	.8	1	l	988	d-	987								
	.9	5.1	2	k	000	m	989								
	5.2	.3	3	h	986	m	992								
	.4	.5	4	h	993	m	984								
	.6	.7	5	c	991	r	013								
	6.1	6.2	6	l	064	d-	986								
	.3	7.1	7	c	989	d	993								
	8.1	8.2	8	c	992	u	240								
	.3	.4	9	-		u	010								
	9.1	9.2	240	l	068	d-	991								
	.3	.4	1	c	991	-									
	.5	.6	2	l	067	m	994								
	.7	.8	3	c	993	m	981								
	.9	.10	4	a-	991	c	984								
	.11	.12	5	l	066	r	013								
	10.1	10.2	6	d	996	a	993								
	11.1	11.2	7	c	994	u	264								
	.3	.4	8	-		u	010								
β	23.1	23.2	9	l	085	m	077								

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
	23.3	23.4	250	c	989	m	994								
	.5	24.1	1	k	000	m	980								
	24.2	.3	2	c	992	l	981								
	25.1	25.2	3	d-	989	c	989								
δ	18.1	18.2	4	-		r	013								
	19.1	19.2	5	d	992	f	989								
	30.1	30.2	6	h	992	u	258								
	.3	.4	7	-		u	010								
	20.1	20.2	8	-		-									
γ	12.1	12.2	9	r	022	u	280								
	12.3	.4	260	b	985	a-	061								
	.5	.6	1	h	985	l	096								
	.7	.8	2	-		q	276								
	13.1	13.2	3	b	981	c	984								
	14.1	14.2	4	b	258	a-	060								
	.3	15.1	5	c	258	s-	989								
	15.2	.3	6	-2	000	a-	984								
	.4	.5	7	k	000	d-	070								
	.6	.7	8	c	989	r	013								
	16.1	16.2	9	l	980	m	994								
	.3	.4	270	c	993	l	065								
	.5	.6	1	d	993	a	992								
	17.1	17.2	2	k	000	u	274								
	.3	.4	3	-		u	010								
	.5	.6	4	m	989	c	992								
	.7	.8	5	l	064	u	254								
	21.1	21.2	6	b	994	c	996								
	.3	.4	7	f	980	b	998								
	.5	.6	8	l	102	q	289								
0 ₁	22.1	22.2	9	g	988	u	223								
	26.1	26.2	280	b	060	a-	283								
0 ₂	.3	.4	1	-		c	283								
	27.1	27.2	2	l	983	r	013								
	28.1	28.2	3	-		-									
	28.3	28.4	4	c	990	l	064								
	.5	.6	5	g	124	u	302								
	31.1	31.2	6	l	990	d	991								
	.3	.4	7	c	992	u	179								
	.5	.6	8	r	013	u	010								
	.7	.8	9	l	068	n	989								
	.9	.10	290	a-	984	c	990								
	.11	.12	1	m	992	-1	000								
	.13	.14	2	c	991	l	980								
	.15	.16	3	m	994	a-	991								
	.17	.18	4	k	000	m	076								
	31.19	31.20	5	c	991	u	286								
	3.3	3.4	6	f	992	c	992								
	3.5	3.6	7	g	993	u	194								
	5.13	5.14	8	r	022	u	280								
	5.15	5.16	9	a-	094	c	094								
	5.17	5.18	300	r	022	u	154								
	5.19	5.20	1	b	982	u	215								
	28.7	28.8	2	d	990	a	124								
	29.1	29.2	3	c	994	u	020								
	28.9	28.10	4	l	983	u	010								
	71.6	71.7	5	l	064	g	991								
	.8	.9	6	d-	124	a-	991								
	.10	.11	7	c	991	l	065								
	71.12	71.13	8	-		u	140								
			9	-		-									

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
	107.1	107.2	920	b	999	-2	000								
	.3	.4	1	c	992	l	991								
	.5	.6	2	d-	992	c	998								
S ₁₁	110.1	110.2	3	h	896	l	890								
	111.1	111.2	4	-		-									
	112.1	112.2	5	r	859	q3	856								
	113.1	113.2	6	b	900	c	930								
	.3	.4	7	b	901	c	937								
	.5	.6	8	50	998	u	934								
S ₁₁₁	11B.1	11B.2	9	-1	000	c	993								
	11C.1	11C.2	930	-		-									
	.3	.4	1	s-	993	-									
S ₁₁₀	115.1	115.2	2	l	000	u	979								
	116.1	116.2	3	l	991	t	939								
	118.1	118.2	4	b	930	a-	061								
	.3	119.1	5	c	930	b	937								
	119.2	.3	6	a	069	c	937								
	11A.1	11A.2	7	-		-									
	119.4	119.5	8	50	907	u	962								
S ₁₃	130.1	130.2	9	b	998	h	895								
	131.1	131.2	940	66	000	b	061								
	.3	.4	1	a-	061	c	008								
	132.1	133.1	2	54	860	b	902								
	133.2	.3	3	c	958	b	903								
	.4	.5	4	r	956	u	953								
	134.1	135.1	5	44	920	b	904								
	135.2	.3	6	c	958	b	905								
	.4	.5	7	r	956	u	953								
	136.1	137.1	8	35	860	b	073								
	137.2	.3	9	c	023	b	075								
	.4	138.1	950	c	146	b	061								
	138.2	.3	1	-		-									
	.4	.5	2	35	920	u	220								
S ₁₅	150.1	150.2	3	a	060	c	960								
	151.1	151.2	4	b	958	a	069								
	152.1	152.2	5	c	958	u	957								
	151.3	151.4	6	-		-									
S ₁₅₀	153.1	153.2	7	l	999	-									
	154.1	154.2	8	-		-									
	155.1	155.2	9	c	990	d-	990								
	.3	.4	960	-		-									
	156.1	156.2	1	b	960	u	953								
S ₁₂	120.1	121.1	2	50	104	l	897								
	122.1	122.2	3	b	063	s-	998								
	122.3	122.4	4	h	992	l	000								
	.5	.6	5	.1	000	t	968								
	123.1	123.2	6	33	920	33	920								
	124.1	124.2	7	33	920	u	920								
S ₁₄	140.1	140.2	8	b	104	s-	893								
	.3	.4	9	k	000	m	992								
	.5	.6	970	c	992	b	998								
	.7	.8	1	s-	894	k	000								
	.9	.10	2	d-	992	a-	104								
	140.11	140.12	3	c	992	f	992								
	141.1	141.2	4	l	100	b	104								
	141.3	141.4	5	h	893	q	978								
	142.1	143.1	6	g	104	b	998								
	143.2	.3	7	c	894	u	939								
	144.1	144.2	8	g	100	u	976								
	115.3	115.4	9	.1	000	u	933								

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
			920	33 010	u 010										
			1	RΔΔxx	Δxx'T				C ₁						
			2	00 001	-				C ₂						
			3	RRAΔS	lΔxxΔ'				C ₃						
			4	LcΔlΔ'	'''U'''				C ₄						
			5	Δ'LfΔl	UΔ'''				C ₅						
			6	RRΔΔ'	lΔΔhTΔ				C ₆						
			7	ΔΔΔSs	FT'''				C ₇						
			8	'ΔΔΔΔΔ	SΔSsTR				C ₈						
			9	TLΔlΔ	U''RRΔ				C ₉						
			930	Δ lΔhT	ΔΔΔΔS				C ₁₀						
			1	4TΔΔΔΔ	ΔlΔ4TU				C ₁₁						
			2	ΔΔΔΔS	eoTΔΔ				C ₁₂						
			3	ΔΔSeiR	''''''				C ₁₃						
			4	wrongΔ	''date				C ₁₄						
			5	''''''	''''''				C ₁₅						
			6	001001	-				C ₁₆						
			7	h4 190	-				C ₁₇						
			8	-	00 301				C ₁₈						
			9	RtapeΔ	7Δfull				C ₁₉						
			940	111111	11 011				C ₂₀						
			1	-	00 001				C ₂₁						
			2	10 000	-				C ₂₂						
			3	111100	111111				C ₂₃						
			4	111111	10 111				C ₂₄						
			5	077000	-				LC ₁						
			6	P'P'''	''''''				C ₂₆						
			7	R'R'R'	R'R'R'				C ₂₇						
			8	RendΔΔ	ΔΔbcΔΔ				C ₂₈						
3.3	3.4		9	r 975	u 136										
4.1	4.2		950	b 932	-										
.3	.4		1	r 975	u 136										
5.1	5.2		2	b 933	-										
.3	.4		3	r 975	u 136										
.5	.6		4	-	u 976										
36.1	36.2		5	50 934	-										
36.3	.4		6	90 000	u 856										
.5	.6		7	e 933	u 104										
			8	R'R'BR	'R'R''				C ₃₈						
			9	PPPPPP	PPPPPP				C ₃₉						
21.1	21.2		960	e 933	u 092										
			1	-	00 274				C ₄₁						
			2	-	01 000				C ₄₂						
			3	TpageΔ	00T'''				PW ₁						
			4	-	u 064				C ₄₄						
			5	''''''	'''R				C ₄₅						
			6	006000	-				C ₄₆						
			7	v4 250	w 990				C ₄₇						
			8	002002	-				C ₄₈						
			9	111111	101111				C ₄₉						
			970	-	-				C ₅₀ = $(\pi/26)^2 \times 10^{-5}$						
			1	-	-				C ₅₁ = N°						
			2	-	-				C ₅₂ = L°						
			3	-	-				C ₅₃ = F°						
			4	-	-				C ₅₄ = cm						
			5	-	-								E ₁		
			6	-	-								E ₂		
			7	-	-								E ₃		
			8	-	-								LC		
			9	-	-										

Block #147

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
	1.3	1.4	010	50	908	66	000								
	1.5	1.6	1	y	100	z	970								
	1.7	1.8	2	33	070	36	130								
	2.1	3.1	3	-		l	961								
	3.2	3.3	4	b	009	t	016								
	4.1	4.2	5	50	099	u	020								
	5.1	5.2	6	b	959	c	190								
	6.1	7.1	7	77	190	50	939								
	7.2	8.1	8	c	009	87	000								
	8.2	8.3	9	90	000	u	015								
E ₅	0.1	0.2	020	h	892	c	038								
	0.3	0.4	1	b	891	c	046								
	0.5	.6	2	b	026	a-	972								
	.7	.8	3	c	026	b	055								
	.9	.10	4	a-	972	c	055								
	1.1	1.2	5	b	972	c	997								
	.3	.4	6	-		b	879								M(H ₁)
	.5	2.1	7	c	992	l	007								
	2.2	2.3	8	r	977	q	955								
	3.1	3.2	9	r	976	u	152								
e ₅₂	3.3	3.4	030	r	976	u	162								
	.5	.6	1	r	975	u	133								
	4.1	4.2	2	b	997	06	000								
	.3	.4	3	f	943	e	921								
	.5	.6	4	c	921	b	992								
	.7	.8	5	03	000	f	944								
	.9	.10	6	e	921	-									
	.11	.12	7	r	975	u	136								
	5.1	5.2	8	b	000	i	1 000						M(S _{l,h})		
	.3	.4	9	f	941	e	921								
e ₅₁	.5	.6	040	r	975	u	136								
	6.1	6.2	1	l	992	q	046								
	7.1	7.2	2	b	992	s-	941								
	8.1	8.2	3	c	992	b	038								
	.3	.4	4	s-	922	c	038								
	.5	.6	5	-		u	031								
	9.1	9.2	6	b	000	i	1 000						M(S _{l,l})		
	.3	.4	7	e	933	-									
	.5	.6	8	r	975	u	136								
	10.1	10.2	9	b	997	s-	941								
e ₅₃	.3	.4	050	h	997	k	000								
	.5	.6	1	-		q	057								
	11.1	11.2	2	b	055	s-	941								
	.3	.4	3	c	055	b	046								
	.5	.6	4	s-	922	c	046								
	12.1	12.2	5	-		b	879								M(H _l)
	.3	.4	6	-		u	043								
	13.1	13.2	7	b	973	c	999								
	.3	.4	8	r	975	u	131								
	14.1	14.2	9	b	026	h	061								
e ₅₈	.3	.4	060	c	099	f	972								
	.5	.6	1	-		-									
	.7	.8	2	g	997	c	992							B	M(H _l)
	.9	.10	3	r	976	u	144								
	.11	.12	4	r	976	u	152								
	.13	.14	5	r	976	u	182								
	15.1	15.2	6	b	964	c	977								
	.3	.4	7	r	975	u	133								
	.5	.6	8	b	992	s-	941								
	15.7	15.8	9	c	992	-									

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
	15.9	15.10	070	r	975	u	121								
	16.1	16.2	1	b	997	06	000								
	.3	.4	2	f	943	e	921								
	.5	.6	3	c	921	b	992								
	.7	.8	4	03	000	f	944								
	.9	.10	5	e	921	-									
	.11	.12	6	r	975	u	136								
	17.1	17.2	7	l	992	q	082								
	.3	.4	8	b	990	1	000								
	.5	.6	9	f	941	e	933								
	.7	.8	080	r	975	u	136								
	.9	.10	1	-		u	066								
e55	18.1	18.2	2	b	990	1	000								
	.3	.4	3	f	941	e	921								
	.5	.6	4	r	975	u	136								
	.7	.8	5	r	975	u	121								
	19.1	19.2	6	b	990	1	000								
	.3	.4	7	f	941	e	921								
	.5	.6	8	r	975	u	136								
	.7	.8	9	r	975	u	121								
	20.1	20.2	090	k	000	b	990								
	.3	.4	1	f	942	t	960								
	21.3	21.4	2	-		-									
	.5	.6	3	f	941	e	921								
	.7	.8	4	r	975	u	136								
e56	22.1	22.2	5	k	000	b	997								
	.3	.4	6	s-	941	q	101								
	24.1	25.1	7	c	997	b	099								
	25.2	.3	8	s-	941	c	099								
	26.1	26.2	9	edit	r	outline									
	.3	.4	100	c	992	u	066								
e57	.5	.6	1	r	975	u	121								
	27.1	27.2	2	k	000	b	990								
	.3	.4	3	f	942	t	957								
			4	-		-									
			5	r	975	u	136								
	29.1	29.2	6	l	941	b	999								
	.3	.4	7	-		q	110								
	30.1	30.2	8	s-	941	c	999								
	.3	.4	9	-		u	059								
			110	r	976	u	144								
	31.1	31.2	1	b	946	50	948								
	31.3	31.4	2	r	975	u	136								
	32.1	32.2	3	b	136	a	936								
	33.1	33.2	4	b	935	u	112								
	34.1	34.2	5	l	935	j	249								
	.3	.4	6	77	190	50	009								
	.5	.6	7	33	200	30	200								
	35.1	35.2	8	66	000	u	200								
	.3	.4	9	33	860	33	860								
	.5	.6	120	33	920	u	920								
E4	1.1	1.2	1	-		-						V40 + i	250 + i	W	990
e40	5.1	5.2	2	l	990	b	008								
	.3	.4	3	f	969	q	128								
	6.1	6.2	4	s-	990	04	000								
	.3	.4	5	e	126	c	126								
	7.1	7.2	6	b	991	-x	000								
	9.1	9.2	7	c	990	u	129								
	8.1	8.2	8	b	991	u	127								
e42	2.1	2.2	9	b	121	a	968								

Block #149

374

CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
E ₄₁	2.3	2.4	130	c	121	u	975								
	3.1	3.2	1	b	967	c	121								
	4.1	4.2	2	36	250	u	975								
E ₆	1.1	1.2	3	b	978	a	936								
	2.1	2.2	4	c	978	u	975								
	1.3	1.4	5	-		u	977								
E ₇	1.1	1.2	6	h4	190	-						40 + i	x ₁		
	2.1	2.2	7	b	136	a	936								
	3.1	3.2	8	c	136	u	975								
	4.1	5.1	9	77	190	l	938								
	5.2	.3	140	b	009	a-	941								
	.4	.5	1	h	009	q	143								
	6.1	6.2	2	b	937	u	138								
	7.1	7.2	3	90	000	u	856								
	1.1	1.2	4	r	975	-									
E ₈	.3	.4	5	b	978	a	966								
	3.1	3.2	6	c	978	u	150								
	2.1	2.2	7	b	978	a	936								
	4.1	4.2	8	c	978	u	151								
	2.3	2.4	9	-		u	976								
	5.1	5.2	150	b	947	u	136								
	6.1	6.2	1	b	965	u	136								
	1.1	1.2	2	b	958	-									
	1.3	1.4	3	r	975	u	136								
	2.1	2.2	4	b	890	-									
	2.3	2.4	5	r	975	u	136								
	3.1	3.2	6	b	963	a-	962								
	.3	.4	7	h	963	-									
	.5	.6	8	r	975	u	136								
	4.1	4.2	9	b	007	-									
	4.3	4.4	160	r	975	u	136								
	.5	.6	1	-		u	976								
	1.1	1.2	2	b	008	02	000								
E ₉	.3	.4	3	f	940	e	923								
	.5	.6	4	r	975	u	136								
	2.1	2.2	5	b	924	-									
	.3	.4	6	r	975	u	136								
	3.1	4.1	7	b	974	f	942								
	4.2	4.3	8	-		-									
	4.4	.5	9	r	975	u	136								
	5.1	5.2	170	b	925	-									
	.3	.4	1	r	975	u	136								
e ₉₁	6.1	7.1	2	b	998	-									
	7.2	7.3	3	r	975	u	136								
	8.1	8.2	4	b	926	-									
	.3	.4	5	r	975	u	136								
	9.1	9.2	6	b	927	-									
	.3	.4	7	r	975	u	136								
	10.1	10.2	8	b	945	c	978								
	.3	.4	9	b	928	-									
	.5	.6	180	r	975	u	136								
E ₁₁	.7	.8	1	-		u	976								
	1.1	1.2	2	b	999	03	000								
	.3	.4	3	f	944	e	929								
	.5	.6	4	r	975	u	136								
	2.1	2.2	5	b	189	c	978								
	.3	.4	6	b	930	-									
	.5	.6	7	r	975	u	136								
	3.1	3.2	8	b	931	u	949								
			9	075000	-										

Block #150

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CONNECTOR ENTRY	ORDER #		STORAGE ASSIGNMENT	LEFT		RIGHT		CONSTANTS STORED				VARIABLE PARTS			
	L	R		O	A	O	A	LO	LA	RO	RA	LO	LA	RO	RA
C ₁	10.1	11.1	200	23	000	43	860								
	11.2	.3	1	43	860	43	860								
	.4	.5	2	43	860	43	860								
	.6	.7	3	43	860	43	860								
	.8	.9	4	43	860	43	860								
	.10	.11	5	43	860	43	860								
	.12	.13	6	43	860	43	860								
	.14	.15	7	43	860	43	860								
	.16	.17	8	43	860	43	860								
	11.18	11.19	9	43	860	43	860								
	.20	.21	210	43	860	43	860								
	.22	.23	1	43	860	43	860								
	12.1	12.2	2	33	860	33	860								
	13.1	13.2	3	33	920	b	220								
	.3	.4	4	k	000	q9	220								
	13.5	13.6	5	-		u	920								
			6	-		-									
			7	-		-									
			8	-		-									
			9	-		-									
C ₂	20.1	21.1	220	50	973	10	842								
	22.1	22.2	1	8	842	b	973								
	22.3	22.4	2	-		t	225								
	23.1	23.2	3	b	973	q	920								
	24.1	24.2	4	33	920	u	223								
	25.1	26.1	5	43	920	43	920								
	27.1	27.2	6	b	973	q	228								
	28.1	28.2	7	43	920	u	226								
	29.1	29.2	8	33	920	33	920								
	29.3	29.4	9	33	920	u	920								
			230	-		-									
			1	-		-									
			2	-		-									
			3	-		-									
			4	-		-									
			5	-		-									
			6	-		-									
			7	-		-									
			8	-		-									
			9	-		-									
			240	-		-									
			1	-		-									
			2	-		-									
			3	-		-									
			4	-		-									
			5	-		-									
			6	-		-									
			7	-		-									
			8	-		-									
			9	-		-									
			250	-		-									
			1	-		-									
			2	-		-									
			3	-		-									
			4	-		-									
			5	-		-									
			6	-		-									
			7	-		-									
			8	-		-									
			9	-		-									

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APPENDIX A

Parameter Sheets

RE-6.8

 $M_1^* = 302$

$$(4 + G)N + (4 + 2G)L \leq 553$$

$$G \leq 6 \quad L \leq 10 \quad L + N \leq 99$$

G = 1		G = 2		G = 3		G = 4		G = 5		G = 6	
N =	L ≤	N =	L ≤	N =	L ≤	N =	L ≤	N =	L ≤	N =	L ≤
89	10	78	10	64	10	54	10	45	10	39	10
90	9	79, 80	9	65, 66	9	55	9	46, 47	9	40	9
91	8	81	8	67	8	56, 57	8	48, 49	8	41, 42	8
92	7	82	7	68, 69	7	58	7	50	7	43, 44	7
93	6	83, 84	6	70	6	59, 60	6	51, 52	6	45	6
94	5	85	5	71	5	61	5	53	5	46, 47	5
95	4	86	4	72, 73	4	62, 63	4	54, 55	4	48	4
96	3	87, 88	3	74	3	64	3	56	3	49, 50	3
97	2	89	2	75, 76	2	65, 66	2	57, 58	2	51, 52	2
98	1	90	1	77	1	67	1	59	1	53	1
L =	N ≤	L =	N ≤	L =	N ≤	L =	N ≤	L =	N ≤	L =	N ≤
1	98	1	90	1	77	1	67	1	59	1	53
2	97	2	89	2	76	2	66	2	58	2	52
3	96	3	88	3	74	3	64	3	56	3	50
4	95	4	86	4	73	4	63	4	55	4	48
5	94	5	85	5	71	5	61	5	53	5	47
6	93	6	84	6	70	6	60	6	52	6	45
7	92	7	82	7	69	7	58	7	50	7	44
8	91	8	81	8	67	8	57	8	49	8	42
9	90	9	80	9	66	9	55	9	47	9	40
10	89	10	78	10	64	10	54	10	45	10	39

RE-7

 $M_1^* = 334$

$$(4 + G)N + (4 + 2G)L \leq 521$$

$$G \leq 6 \quad L \leq 10 \quad L + N \leq 99$$

G = 1		G = 2		G = 3		G = 4		G = 5		G = 6	
N =	$L \leq$	N =	$L \leq$	N =	$L \leq$	N =	$L \leq$	N =	$L \leq$	N =	$L \leq$
89	10	73	10	60	10	50	10	42	10	36	10
90	9	74	9	61	9	51	9	43	9	37	9
91	8	75, 76	8	62, 63	8	52, 53	8	44, 45	8	38, 39	8
92	7	77	7	64	7	54	7	46, 47	7	40	7
93	6	78	6	65	6	55, 56	6	48	6	41, 42	6
94	5	79, 80	5	66, 67	5	57	5	49, 50	5	43, 44	5
95	4	81	4	68	4	58, 59	4	51	4	45	4
96	3	82	3	69, 70	3	60	3	52, 53	3	46, 47	3
97	2	83, 84	2	71	2	61, 62	2	54	2	48	2
98	1	85	1	72, 73	1	63	1	55, 56	1	49, 50	1

L =	$N \leq$	L =	$N \leq$	L =	$N \leq$	L =	$N \leq$	L =	$N \leq$	L =	$N \leq$
1	98	1	85	1	73	1	63	1	56	1	50
2	97	2	84	2	71	2	62	2	54	2	48
3	96	3	82	3	70	3	60	3	53	3	47
4	95	4	81	4	68	4	59	4	51	4	45
5	94	5	80	5	67	5	57	5	50	5	44
6	93	6	78	6	65	6	56	6	48	6	42
7	92	7	77	7	64	7	54	7	47	7	40
8	91	8	76	8	63	8	53	8	45	8	39
9	90	9	74	9	61	9	51	9	43	9	37
10	89	10	73	10	60	10	50	10	42	10	36

RE-26, 28

 $M_1^* = 309$

$$(4 + G)N + (4 + 2G)L \leq 546$$

$$G \leq 6 \quad L \leq 10 \quad L + N \leq 99$$

G = 1		G = 2		G = 3		G = 4		G = 5		G = 6	
N =	L ≤	N =	L ≤	N =	L ≤	N =	L ≤	N =	L ≤	N =	L ≤
89	10	77	10	63	10	53	10	45	10	38	10
90	9	78, 79	9	64, 65	9	54	9	46	9	39, 40	9
91	8	80	8	66	8	55, 56	8	47, 48	8	41	8
92	7	81	7	67, 68	7	57	7	49	7	42, 43	7
93	6	82, 83	6	69	6	58, 59	6	50, 51	6	44, 45	6
94	5	84	5	70	5	60	5	52	5	46	5
95	4	85	4	71, 72	4	61, 62	4	53, 54	4	47, 48	4
96	3	86, 87	3	73	3	63	3	55, 56	3	49	3
97	2	88	2	74, 75	2	64, 65	2	57	2	50, 51	2
98	1	89	1	76	1	66	1	58, 59	1	52, 53	1
L =	N ≤	L =	N ≤	L =	N ≤	L =	N ≤	L =	N ≤	L =	N ≤
1	98	1	89	1	76	1	66	1	59	1	53
2	97	2	88	2	75	2	65	2	57	2	51
3	96	3	87	3	73	3	63	3	56	3	49
4	95	4	85	4	72	4	62	4	54	4	48
5	94	5	84	5	70	5	60	5	52	5	46
6	93	6	83	6	69	6	59	6	51	6	45
7	92	7	81	7	68	7	57	7	49	7	43
8	91	8	80	8	66	8	56	8	48	8	41
9	90	9	79	9	65	9	54	9	46	9	40
10	89	10	77	10	63	10	53	10	45	10	38

RE-27

 $M_1^* = 341$

$$(4 + G)N + (4 + 2G)L \leq 514$$

$$G \leq 6 \quad L \leq 10 \quad L + N \leq 99$$

G = 1		G = 2		G = 3		G = 4		G = 5		G = 6	
N =	L ≤	N =	L ≤	N =	L ≤	N =	L ≤	N =	L ≤	N =	L ≤
89	10	72	10	59	10	49	10	41	10	35	10
90	9	73	9	60	9	50	9	42, 43	9	36, 37	9
91	8	74, 75	8	61, 62	8	51, 52	8	44	8	38	8
92	7	76	7	63	7	53	7	45, 46	7	39, 40	7
93	6	77	6	64	6	54, 55	6	47	6	41	6
94	5	78, 79	5	65, 66	5	56	5	48, 49	5	42, 43	5
95	4	80	4	67	4	57, 58	4	50	4	44, 45	4
96	3	81	3	68, 69	3	59	3	51, 52	3	46	3
97	2	82, 83	2	70	2	60, 61	2	53, 54	2	47, 48	2
98	1	84	1	71, 72	1	62	1	55	1	49	1

L =	N ≤	L =	N ≤	L =	N ≤	L =	N ≤	L =	N ≤	L =	N ≤
1	98	1	84	1	72	1	62	1	55	1	49
2	97	2	83	2	70	2	61	2	54	2	48
3	96	3	81	3	69	3	59	3	52	3	46
4	95	4	80	4	67	4	58	4	50	4	45
5	94	5	79	5	66	5	56	5	49	5	43
6	93	6	77	6	64	6	55	6	47	6	41
7	92	7	76	7	63	7	53	7	46	7	40
8	91	8	75	8	62	8	52	8	44	8	38
9	90	9	73	9	60	9	50	9	43	9	37
10	89	10	72	10	59	10	49	10	41	10	35

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APPENDIX B

Sample Input Data Form Sheets

BLOCK BEGINNING	R. E. #	TAPE 2	BLOCK #
j = 2	510	8	4 2 3
1			9 6 4
2			1 7 6
3			2 5 4 1
4			
5			
6			
7			
8			
9			
520	8 4	6 3	
1	1 0 1	2 0	
2	2 6	4	
3	8 8	9 3	
4			
5			
6			
7			
8			
9			
530	2 2	2 1	
1			
2			
3			
4			
5			
6			
7			
8			
9			

PROBLEM
PREPARED BY

DATE
PAGE OF

R. E. #					TAPE 2					BLOCK #				
540														
1														
2														
3														
4														
5														
6														
7														
8														
9														
550			1	1	5	2	6	3						
1			1	0	2	1	6	4						
2			2	6		4	0	1	7	6				
3			8	9		1	8	4	1					
4														
5														
6														
7														
8														
9														
560														
1														
2														
3														
4														
5														
6														
7														
8														
9														

PROBLEM
PREPARED BY

DATE
PAGE 4 OF 4

R. E. #		TAPE 2						BLOCK #					
Block Beginning	510	P	R	O	B.	Δ	T	E	O	O	O	8th & 9th digits = 1st 2 digits of problem designation	
	1												
	2												
	3												
	4												
	5												
	6												
	7												
	8												
	9												
j = 1	520				1 5	2	6					σ_{a1} = absorption X-section for material 1·10 ⁻³	
	1				1 4	3	9					σ_{a2} = absorption X-section for material 2·10 ⁻³	
	2					4	9	3	9			σ_{a3} =	
	3				9	1	6	1				σ_{a4} for Z < 10, X-sections for	
	4											σ_{a5} Z + 1, Z + 2 . . . 10 must be	
	5											σ_{a6} filled in as zero words	
	6											σ_{a7}	
	7											σ_{a8}	
	8											σ_{a9} types of X-sections appear in the following order for	
	9											σ_{a10} each j (j = 1(1)J):	
	530				6 0	4	5					: $\sigma_a, \sigma_{TR}, \sigma_f, \sigma_{in j+1}, \sigma_{in j+2}, \dots$	
	1				7 2	3						· $\sigma_{in j+G}, \sigma_{tot}$ all scaled · 10 ⁻³	
	2				1 9	8						- G constant throughout problem	
	3				7 6	2	3						
	4											lines should be numbered 510-569, 510-569, etc. each	
	5											set of cross sections should require 40 + 10G lines to	
	6											complete, zero words should be added as necessary to	
	7											end on a line 569	
	8											∇ each spectrum (40 + 10G)J + 10 lines	
	9												

PROBLEM
PREPARED BY

DATE
PAGE OF

BLOCK #

End of
Block

DATE _____
PAGE _____ OF _____

R. E. # 6

TAPE 1

BLOCK #

Block Beginning	O10	K	P	R	O	B	.	Δ	T	E	S	T	1	
	1												2	Last 5 digits problem designation
	2												2	$C^* = \#$ of core regions $\cdot 10^{-11}$
	3												4	$L^* = \#$ of regions $\cdot 10^{-11}$
	4												1	$Z^* = \#$ of materials $\cdot 10^{-11}$
	5												2	$G^* = \#$ of groups for inelastic scattering $\cdot 10^{-11}$
	6						4						4	$\bullet 2L^* = 2 \cdot \#$ of regions $\cdot 10^{-5}$ & $2 \cdot \#$ of regions $\cdot 10^{-11}$
	7		3	0										$\overline{H}_1 = \#$ of divisions in region 1 $\cdot 10^{-2}$
	8		3	0										$\overline{H}_2 = \#$ of divisions in region 2 $\cdot 10^{-2}$
	9													$\overline{H}_3$
020														$\overline{H}_4$
	1													$\overline{H}_5$
	2													$\overline{H}_6$
	3													$\overline{H}_7$
	4													$\overline{H}_8$
	5													$\overline{H}_9$
	6													$\overline{H}_{10}$
	7		1											$s_1 =$ standard configuration for region 1
	8		1											$s_2 =$ standard configuration for region 2
	9													s_3
030														s_4
	1													s_5
	2													s_6
	3													s_7
	4													s_8
	5													s_9
	6													s_{10}
	7			4	1	1	4	9	0	1	3			$\overline{b}_1 =$ outer boundary of region 1 $\cdot 10^{-3}$
	8			8	2	2	9	8	0	2	6			$\overline{b}_2 =$ outer boundary of region 2 $\cdot 10^{-3}$
	9													$\overline{b}_3$

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R. E. #6							TAPE 1					BLOCK #							
	040																		b ₄
	1																		b ₅
	2																		b ₆
	3																		b ₇
	4																		b ₈
	5																		b ₉
	6																		b ₁₀
	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	050	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	7	5	7	5															β_1 = Fraction of fission neutrons born in group 1
	8	4	2	5															β_2 = Fraction of fission neutrons born in group 2
	9																		β_3
	060																		β_4
	1																		β_5
	2																		β_6
	3																		β_7
	4																		β_8
	5																		β_9
	6																		β_{10}
	7																		β_{11}
	8																		β_{12}
End of Block	9																		β_{13}

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R. E. #6		TAPE 1										BLOCK #	
Block Beginning	070											β_{14}	
	1											β_{15}	
	2											β_{16}	
	3											β_{17}	
	4											β_{18}	
	5											β_{19}	
	6											β_{20}	
	7	3	3	5								Volume Fraction	
	8											for $\ell \leq C$ $M(v_{z, \ell}) = 077 + (C+L)(z-1) + 2(\ell-1)$	
	9											$M^D(v_{z, \ell}) = 078 + (C+L)(z-1) + 2(\ell-1)$	
	080											for $\ell > C$ $M(v_{z, \ell}) = 077 + (C+L)(z-1) + C + \ell - 1$	
	1												
	2												
	3												
	4	3	3	5									
	5	5	1	7									
	6	5	1	7									
	7	5	1	7									
	8	5	1	7									
	9	1	4	8									
	090	1	4	8									
	1	1	4	8									
	2	1	4	8									
	3												
	4												
	5												
	6												
	7												
	8												
	9												

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R. E. #6		TAPE 1		BLOCK #	
Block Beginning	770	1			$\hat{s}_{f1}$ = Initial stepfunction fission source for region 1. 10^{-1}
1		5			$\hat{s}_{f2}$ = Initial stepfunction fission source for region 2. 10^{-1}
2					$\hat{s}_{f3}$
3					$\hat{s}_{f4}$
4					$\hat{s}_{f5}$
5					$\hat{s}_{f6}$
6					$\hat{s}_{f7}$
7					$\hat{s}_{f8}$
8					$\hat{s}_{f9}$
9					$\hat{s}_{f10}$
780	1 2 1 4 4				For R. E. 6: $\bar{H}$ = height of cylinder. 10^{-3} For R. E. 8: $B = 10^{-1}$ $B^2 = 10^{-1}$ radial buckling
1	1				$\bar{c}^{-1}$ = Initial "guessed" value for concentration. 10^{-1}
2				1	$\bar{\delta}$ = Allowable error for convergence. 10^{-1}
3					$\bar{\epsilon}$ = Allowable error for criticality. 10^{-1}
4			6 0		$N^* = 10^{-11} \sum_{l=1}^L H_l$ = total # of divisions. 10^{-11}
5			3 0 2		M_1 = Initial address of variable address storage. 10^{-11}
6					For R. E. 8: $\frac{\text{integration factor}}{\text{vol. of reactor}}$
7					For R. E. 8: $W = 0$ for asymmetric case, $= 10^{-1}$ for symmetric case
8					For R. E. 8: $X = 10^{-1}$ for cell calculations, $= 0$ otherwise
9	0 0 0 0 0 0	0 0 0 0 0 0			Note: Fill block with zeros
	0 0 0 0 0 0	0 0 0 0 0 0			
	0 0 0 0 0 0	0 0 0 0 0 0			
	0 0 0 0 0 0	0 0 0 0 0 0			
	0 0 0 0 0 0	0 0 0 0 0 0			
	0 0 0 0 0 0	0 0 0 0 0 0			
	0 0 0 0 0 0	0 0 0 0 0 0			
	0 0 0 0 0 0	0 0 0 0 0 0			
	0 0 0 0 0 0	0 0 0 0 0 0			
	0 0 0 0 0 0	0 0 0 0 0 0			
End of Block	829	0 0 0 0 0 0	0 0 0 0 0 0		

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APPENDIX C

Sample Supervisory Control Record

```

type date   march 9, 54 .
type code
000000re 006.
type time
0725 .
what prob
prob. test1.
prob. check
wrong prob
what prob
prob. test1.
prob. check
prob. test1
xsec calc starting
xsec calc ending
prelim 2-0
prelim 2-1
prelim 2-2
prelim 2-3
prelim 2-4
      rescale
bal ck  02
bal ck  01      rescale
bal ck  02
bal ck  01
source      rescale
009645898000
bal ck  02      rescale
bal ck  02
bal ck  01
source      rescale
009618326000
bal ck  02
bal ck  01      rescale
bal ck  02
bal ck  01
source      rescale
009609731000
bal ck  02
bal ck  01      rescale
bal ck  02
bal ck  01
source      rescale
009607594000
bal ck  02

```

```

bal ck  01      rescale
bal ck  02
bal ck  01
source      rescale
009607362000
bal ck  02
bal ck  01      rescale
bal ck  02
bal ck  01
source      rescale
009607094000
bal ck  02
bal ck  01      rescale
bal ck  02
bal ck  01
source      rescale
009606958000
converged
010000000000
bal ck  02
bal ck  01      rescale
source      rescale
009987307000
bal ck  02
bal ck  01      rescale
source      rescale
009987284000
converged
010418019078
bal ck  02
bal ck  01      rescale
source
009999865000
bal ck  02
bal ck  01      rescale
source
010000050000
converged
010445113205
critical
edit routine
end   bc 000000000037
type time
0745 .
what prob

```

APPENDIX D

Sample Problem Output

PROB0 TEST1

PAGE 01

MARCH 15, 54

R = 03 C = 10445113205 F = 10000050000

L H	SF	ISF
02 30	000000000000	
02 29	00007633543	
02 28	00015385191	
02 27	00023246733	
02 26	00031209750	
02 25	00039265653	
02 24	00047409721	
02 23	00055621075	
02 22	00063902706	
02 21	00072241514	
02 20	00080628250	
02 19	00089053583	
02 18	00097508056	
02 17	00105982387	
02 16	00114466787	
02 15	00122951708	
02 14	00131427709	
02 13	00139884931	
02 12	00148313805	
02 11	00156704680	
02 10	00165047908	
02 09	00173333929	

PROB. TEST1

PAGE 02

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R = 03 C = 10445113205 F = 10000050000

L H	SF	ISF
02 08	00181553113	
02 07	00189695931	
02 06	00197752963	
02 05	00205714820	
02 04	00213572323	
02 03	00221316131	
02 02	00228937215	
02 01	00236426756	
02 00	00243775814	00051946391
01 30	00243775814	
01 29	00250975830	
01 28	00258018314	
01 27	00264894816	
01 26	00271597417	
01 25	00278118037	
01 24	00284448956	
01 23	00290582686	
01 22	00296511906	
01 21	00302229637	
01 20	00307729038	
01 19	00313003472	
01 18	00318046716	

PROB. TEST1

PAGE 03

MARCH 15, 54

R = 03 C = 10445113205 F = 10000050000

L H	SF	ISF
01 17	00322852723	
01 16	00327415812	
01 15	00331730354	
01 14	00335791298	
01 13	000339593856	
01 12	00343133317	
01 11	00346405511	
01 10	00349406480	
01 09	00352132622	
01 08	00354580678	
01 07	00356747628	
01 06	00358631063	
01 05	00360228482	
01 04	00361538146	
01 03	00362558294	
01 02	00363287867	
01 01	00363726035	
01 00	00363872028	00048053608

396

PROB. TEST1

PAGE 04

MARCH 15, 54

J = 01

L H	φ	$I\varphi$	E ₀	E ₁
02 29	00064569313			
02 28	00130137788			
02 27	00196635755			
02 26	00263992074			
02 25	00332134126			
02 24	00400988111			
02 23	00470478893			
02 22	00540530398			
02 21	00611065415			
02 20	00682005892			
02 19	00753272913			
02 18	00824786887			
02 17	00896467612			
02 16	00968234310			
02 15	01040005931			
02 14	01111701028			
02 13	01183238036			
02 12	01254535241			
02 11	01325510970			
02 10	01396083749			
02 09	01466172245			
02 08	01535695636			
02 07	01604573331			
02 06	01672725383			

PROB. TEST1

PAGE 05

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J = 01

L H

P

I P

E0

E1

02 05

01740072545

02 04

01806536273

02 03

01872038908

02 02

01936503713

02 01

01999855167

02 00

02062018702

00439396800

0000159336

01 29

02122921209

01 28

02182491020

01 27

02240657646

01 26

022971352297

01 25

02352507986

01 24

02406059358

01 23

02457942780

01 22

02508096652

01 21

02556461086

01 20

02602878625

01 19

02647593758

01 18

02690253183

01 17

02730905813

01 16

02769503134

01 15

02805999038

01 14

02840349928

01 13

02872514425

01 12

02902453748

PROB. TEST1,

PAGE 06

MARCH 15, 54

J = 01

L H	ϕ	$l\phi$	E_0	E_1
01 11	02930132181			
01 10	02955516584			
01 09	02978576089			
01 08	02999283122			
01 07	03017612742			
01 06	03033543306			
01 05	03047054672			
01 04	03058131518			
01 03	03066759472			
01 02	03072929062			
01 01	03076634075			
01 00	03077866927	00406470070	0000076569	00000000234

PROB. TEST1

PAGE 07

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J = 02

L H

 φ $|\varphi$

E0

E1

02 29	00762602252
02 28	01537005059
02 27	02322385391
02 26	03117902820
02 25	03922700547
02 24	04735906414
02 23	05556634074
02 22	06383984034
02 21	07217044909
02 20	08054894625
02 19	08896601507
02 18	09741225389
02 17	10587819117
02 16	11435429242
02 15	12283097916
02 14	13129863661
02 13	13974762705
02 12	14816830497
02 11	15655102501
02 10	16488615966
02 09	17316410985
02 08	18137531565
02 07	18951026898
02 06	19755952853

PROB. TEST1

PAGE 08

MARCH 15, 54

J = 02

L H	φ	$ \varphi$	E_0	E_1
02 05	20551373068			
02 04	21336360258			
02 03	22109997395			
02 02	22871378710			
02 01	23619611197			
02 00	24353815902	05189549780	0001418516	
01 29	25073127975			
01 28	25776699866			
01 27	26463700759			
01 26	27133318467			
01 25	27784759858			
01 24	28417252409			
01 23	29030045073			
01 22	29622409503			
01 21	30193640753			
01 20	30743058254			
01 19	31270006984			
01 18	31773857432			
01 17	32254007378			
01 16	32709882174			
01 15	33140936742			
01 14	33546654156			
01 13	33926548870			
01 12	34280164475			

PROB. TEST1

PAGE 09

MARCH 15, 54

J = 02

L H

 φ $l\varphi$ E_0 E_1

01 11 34607076919

01 10 34906894212

01 09 35179256263

01 08 35423834625

01 07 35640334669

01 06 35828496814

01 05 35988095000

01 04 36118936516

01 03 36220865195

01 02 36293757271

01 01 36337527911

01 00 36352127274

04800704800

0000681718

00000001768

APPENDIX E

Notes on Section V. Description of Mathematical Method

1. It is of eigenvalue type, having a solution if and only if zero is in the point-spectrum of the operator.

The equation of motion is given by $M\phi = \frac{\partial \phi}{\partial t}$, where M is the linear operator $M\phi = v \vec{\nabla} \cdot D \vec{\nabla} \phi + v Q$ and v is the velocity of a neutron at energy E . M is not self-adjoint, but if it can be associated with a bi-orthogonal set $\{\phi_i\}, \{\phi_i^+\}$ [i.e., $(\phi_n, \phi_m^+) = 0$ if $n \neq m$ and $= 1$ if $n = m$] of eigenfunctions $M\phi_n = \nu_n \phi_n$ of M and $M^* \phi_n^+ = \nu_n^* \phi_n^+$ of its adjoint M^* , having the proper convergence properties; then an arbitrary initial flux ϕ can be expanded $\phi = \sum_1^\infty \alpha_i \phi_i$ with $\alpha_n = (\phi, \phi_n^+)$. Its time-dependence will satisfy $\sum_1^\infty \alpha_i M \phi_i = \sum_1^\infty \frac{d \alpha_i}{dt} \phi_i$; so (applying ϕ_n^+ to both sides of the equation) $\nu_n \alpha_n = \frac{d \alpha_n}{dt}$,

$$\alpha_n = a_n e^{\nu_n t}, \quad a_n \text{ constant.}$$

The eigenstate corresponding to that eigenvalue whose real part is most positive will eventually dominate all other terms in the expansion, so it is the stable state of the reactor.

We adjust the reactivity until this eigenvalue is zero, i.e., until the pile is critical.

2. This solution $\phi^{c,2}$ will always exist. Scattering is from higher into lower energy levels, so we can start in the top group and work downward, solving an equation of the form $\vec{\nabla} \cdot D \vec{\nabla} \phi - \sigma_a \phi + S = 0$ in each case, where $S (= S_s + S_f)$ depends on known $\phi^{c,1}$ and that part of $\phi^{c,2}$ already computed. The boundary conditions $\phi = 0$ at the (extrapolated) edge of the reactor make $\vec{\nabla} \cdot D \vec{\nabla} - \sigma_a$ a negative definite operator bounded away from zero, so it has an everywhere-defined inverse and $\phi = -(\vec{\nabla} \cdot D \vec{\nabla} - \sigma_a)^{-1} S$.

3. Each cycle of the iteration is the product of three operations. (i) The flux is a function of H mesh-points in its spatial dependence and J points in its energy dependence, so it can be thought of as a point in an HJ - dimensional real vector space $\mathcal{R}$. This space is mapped by the linear transformation ζ , defined by

$$(\zeta \phi)(\vec{r}_n) = \nu(\vec{r}_n) \sum_{j=1}^J \sigma_f(\vec{r}_n, E_j) \phi(\vec{r}_n, E_j) = S_f(\vec{r}_n),$$

into the N -dimensional vector space $\mathcal{S}$ of all real-valued functions of those N mesh-points r_n having the property that there exists an E_j such that $\sigma_f(\vec{r}_n, E_j) > 0$. (ii) $\mathcal{S}$ is mapped back into $\mathcal{R}$ by the linear transformation β which corresponds to the fission spectrum. (iii) $\mathcal{R}$ is mapped into itself by the linear transformation Δ which corresponds to diffusion and group-to-group scattering.

Each cycle begins and ends with a fission source density S_f in $\mathcal{S}$, by way of the transformation $\zeta \Delta \beta$, so it is sufficient to prove that there is a uniquely (to within scalar multiples) determined source density S_0 in $\mathcal{S}$, and a positive constant μ , such that $(\frac{1}{\mu} \zeta \Delta \beta)^i S \rightarrow S_0$ as $i \rightarrow \infty$, for any $S > 0$ in $\mathcal{S}$.

There are four steps in the proof:

(A) If $S > 0$, then $\Delta \beta S$ is everywhere greater than zero.

(The flux $\phi = \Delta \beta S$ is always zero at the extrapolated boundary, so these points are not considered as part of its domain of definition.)

In each group the flux satisfies the difference-equation approximation to $\vec{\nabla} \cdot D \vec{\nabla} \phi - \sigma_a \phi + Q = 0$, where Q contains the sources from fission and also scattering from higher groups. We prove that if $Q_k > 0$ anywhere, then $Q_k > 0$ everywhere in the group.

Since $Q > 0$ in the top group because of the fission contribution, and since the scattering cross sections are all non-negative, this will prove (A) by an induction on the group-number.

The difference equation satisfied by ϕ is of the form

$$\alpha_{k-1} \phi_{k-1} - \beta_k \phi_k + \gamma_{k+1} \phi_{k+1} + Q_k = 0,$$

where

$$\alpha_{k-1} > 0, \gamma_{k+1} > 0, \beta_k \geq \alpha_{k-1} + \gamma_{k+1},$$

and (by the induction hypothesis) $Q_k \geq 0$. If $\phi_k \leq 0$, then

$$-\beta_k \phi_k \geq -(\alpha_{k-1} + \gamma_{k+1}) \phi_k,$$

so the equation implies

$$\alpha_{k-1} \phi_{k-1} - (\alpha_{k-1} + \gamma_{k+1}) \phi_k + \gamma_{k+1} \phi_{k+1} \leq 0$$

and

$$\gamma_{k+1} (\phi_{k+1} - \phi_k) \leq \alpha_{k-1} (\phi_k - \phi_{k-1}).$$

From this it follows that if the difference $\phi_k - \phi_{k-1}$ is negative (positive) then so are all the following (preceding) ones, and it is impossible to satisfy the boundary condition at the right (left) end. If $\phi_k - \phi_{k-1}$ is zero, a similar contradiction occurs unless $\phi \equiv 0$ everywhere in the group; but the equation would then imply $Q \equiv 0$ also, contradicting the presence of at least a fission contribution. (No group such that all cross sections leading to it are zero need occur.)

(B) If $S > 0$, then $\zeta \Delta \beta S$ is everywhere greater than zero.

By definition of $\mathcal{S}$, to every point at which its functions are defined there corresponds at least one group such that the fission cross section at that point is positive. Since the rest of the matrix elements effecting ζ are non-negative, and since ϕ is everywhere positive by (A), we have $\zeta \Delta \beta S$ there positive also.

(C) There is one and only one eigenvector S_0 of $\zeta \Delta \beta$ such that $S_0 > 0$. It corresponds to a positive simple eigenvalue μ , greater than the absolute values of all other points in the spectrum of $\zeta \Delta \beta$.

From (B) we know that $\zeta \Delta \beta$ is represented by a matrix all of whose elements are positive. (C) is then exactly Perron's theorem about such matrices (see Theorem 27, p. 40, Vol. 2 of O. Perron's "Algebra").

- (D) $(\frac{1}{\mu} \zeta \Delta \beta)^i \rightarrow P$ as $i \rightarrow \infty$, where P is the projection of $\mathcal{L}$ on the one-dimensional eigenspace spanned by S_0 .

By (C), $\frac{1}{\mu} \zeta \Delta \beta$ is an operator with unity as a simple point in its spectrum and with all the rest of its spectrum contained in the interior of the unit circle in the complex plane. Therefore

$\frac{1}{\mu} \zeta \Delta \beta = I_0 \oplus T_1 \oplus T_2 \oplus \dots \oplus T_m$, where I_0 is the identity operator on the sub-space spanned by S_0 , and the T_m are represented by the Jordan matrices of those elementary divisors $(\lambda - \lambda_m)^{e_m}$ of $I \lambda - \frac{1}{\mu} \zeta \Delta \beta$ such that $|\lambda_m| < 1$. But $T_m^i \rightarrow 0$ as $i \rightarrow \infty$ (see "Principles of Numerical Analysis" by A. S. Householder; top of page 38), so $(\frac{1}{\mu} \zeta \Delta \beta)^i = I_0^i \oplus T_1^i \oplus \dots \oplus T_m^i \rightarrow I_0 \oplus 0 \oplus \dots \oplus 0 = P$ as $i \rightarrow \infty$.

By (B), $(\frac{1}{\mu} \zeta \Delta \beta) S$ is everywhere greater than zero if $S > 0$; and

$$PS = \lim_{i \rightarrow \infty} (\frac{1}{\mu} \zeta \Delta \beta)^i S = \lim_{i \rightarrow \infty} (\frac{1}{\mu} \zeta \Delta \beta)^{i+1} S = \lim_{i \rightarrow \infty} (\frac{1}{\mu} \zeta \Delta \beta)^i$$

$(\frac{1}{\mu} \zeta \Delta \beta) S = P (\frac{1}{\mu} \zeta \Delta \beta) S$ by (D); so the fact that P is a matrix with positive elements means $PS \neq 0$. Therefore $PS = pS_0$ for some constant $p > 0$ and the proof is completed.

4. The boundary condition $\left(\frac{\partial \phi}{\partial z}\right)_0$ will be imposed by requiring $\phi(-1) = \phi(+1)$ [instead of $\phi(0) = \phi(+1)$], in accord with the three-point difference expression for the Laplacian and with the physical condition of symmetry.
5. On the axis $r = 0$, the Jacobian of the transformation to cylindrical coordinates has a singularity. A number of the difference expressions there break down. In particular, a fictitious "escape" E_1 of neutrons from the axis of the cylinder into the pile is necessary to maintain balance. The flux computation itself remains completely unaffected.

Balance could also have been achieved by modifying the trapezoidal integration formula at $r = 0$, but this would have hidden an (insignificant) error in the figure for the power level, whereas our E_1 gives a measure of the error that is inherent in the discretization of the cylindrical coordinate system. In actual practice it is too small to have physical meaning. Mathematically, it is

$$\frac{E_1}{E_\ell} = 0 ((\Delta_\ell r)^2), \quad \ell > 1.$$

6. The spherical case was taken directly from the KAPL treatment, and was not done in strict analogy with the other two cases. The difference approximation to the differential operators is justified by a special method, and r times the flux rather than the flux itself is solved for.

A unified treatment of all three cases, which reproduces the above recursion relations in the first two, but slightly altered ones for the sphere, can be based on the generalized expression $\frac{1}{r^{N-1}} \frac{\partial}{\partial r} r^{N-1} \frac{\partial}{\partial r}$ for the radial part of the N -dimensional Laplacian. In difference form

$$\left(\frac{1}{r^{N-1}} \frac{d}{dr} r^{N-1} \frac{d}{dr} \phi \right)_{r_n} = \frac{1}{(r_n)^{N-1}} \left\{ \frac{\left[\left(r_{n+\frac{1}{2}} \right)^{N-1} \frac{\phi_{n+1} - \phi_n}{\Delta r} \right] - \left[\left(r_{n-\frac{1}{2}} \right)^{N-1} \frac{\phi_n - \phi_{n-1}}{\Delta r} \right]}{\Delta r} \right\}$$

where $n = n_{\ell, h} = \frac{r_n}{\Delta_{\ell} r}$ need not be integral. So

$$\left(\frac{1}{r^{N-1}} \frac{d}{dr} r^{N-1} \frac{d}{dr} \phi \right)_{r_n} = \frac{(n+\frac{1}{2})^{N-1} \phi_{n+1} - \left[(n+\frac{1}{2})^{N-1} + (n-\frac{1}{2})^{N-1} \right] \phi_n + (n-\frac{1}{2})^{N-1} \phi_{n-1}}{n^{N-1} (\Delta r)^2} =$$

$$\frac{(1+\frac{1}{2n})^{N-1} \phi_{n+1} - \left[(1+\frac{1}{2n})^{N-1} + (1-\frac{1}{2n})^{N-1} \right] \phi_n + (1-\frac{1}{2n})^{N-1} \phi_{n-1}}{(\Delta r)^2}$$

Then (since $\frac{N\pi}{2} r^{\frac{N}{2}-1}$ is the Jacobian of the transformation to radial coordinates we multiply the integrand by r^{N-1})

$$\int_{r_{n_1}}^{r_{n_2}} r^{N-1} \nabla^2 \phi dr = - \left[r^{N-1} \frac{d\phi}{dr} \right]_{r_{n_1}} + \left[r^{N-1} \frac{d\phi}{dr} \right]_{r_{n_2}}$$

is approximated by trapezoidal integration as

$$\begin{aligned}
 & \frac{1}{2} r_{n_1}^{N-1} \left(\frac{1}{r^{N-1}} \frac{d}{dr} r^{N-1} \frac{d}{dr} \phi \right)_{r_{n_1}} \Delta r + r_{n_1+1}^{N-1} \left(\frac{1}{r^{N-1}} \frac{d}{dr} r^{N-1} \frac{d}{dr} \phi \right)_{r_{n_1+1}} \Delta r + \dots \\
 & \dots + r_{n_2-1}^{N-1} \left(\frac{1}{r^{N-1}} \frac{d}{dr} r^{N-1} \frac{d}{dr} \phi \right)_{r_{n_2-1}} \Delta r + \frac{1}{2} r_{n_2}^{N-1} \left(\frac{1}{r^{N-1}} \frac{d}{dr} r^{N-1} \frac{d}{dr} \phi \right)_{r_{n_2}} \Delta r \\
 & = \frac{1}{2} \left((r_{n_1+\frac{1}{2}})^{N-1} \frac{\phi_{n_1+1} - \phi_{n_1}}{\Delta r} - (r_{n_1-\frac{1}{2}})^{N-1} \frac{\phi_{n_1} - \phi_{n_1-1}}{\Delta r} \right) + \dots \\
 & = -\frac{1}{2} \left[(r_{n_1-\frac{1}{2}})^{N-1} \frac{\phi_{n_1} - \phi_{n_1-1}}{\Delta r} + (r_{n_1+\frac{1}{2}})^{N-1} \frac{\phi_{n_1+1} - \phi_{n_1}}{\Delta r} \right] \\
 & \quad + \frac{1}{2} \left[(r_{n_2+\frac{1}{2}})^{N-1} \frac{\phi_{n_2+1} - \phi_{n_2}}{\Delta r} + (r_{n_2-\frac{1}{2}})^{N-1} \frac{\phi_{n_2} - \phi_{n_2-1}}{\Delta r} \right]
 \end{aligned}$$

so we approximate $\left[\frac{d\phi}{dr} \right]_{r_n}$ by

$$\frac{1}{2\Delta r} \left[\left(1 + \frac{1}{2n}\right)^{N-1} \phi_{n+1} + \left(\left(1 - \frac{1}{2n}\right)^{N-1} - \left(1 + \frac{1}{2n}\right)^{N-1} \right) \phi_n - \left(1 - \frac{1}{2n}\right)^{N-1} \phi_{n-1} \right].$$

The transformation to radial coordinates has a singularity at the origin, so we need another expression for the Laplacian at $r = 0$. If ϕ is of class C^2 , then

$$\begin{aligned}
 \left[\nabla^2 \phi \right]_0 &= \lim_{r \rightarrow 0} \left[\nabla^2 \phi \right]_r = \lim_{r \rightarrow 0} \left[\frac{\partial^2}{\partial r^2} \phi + (N-1) \frac{1}{r} \frac{\partial}{\partial r} \phi \right]_r \\
 &= \left[\frac{\partial^2 \phi}{\partial r^2} \right]_0 + \lim_{r \rightarrow 0} (N-1) \frac{\frac{\partial \phi}{\partial r} - 0}{r}.
 \end{aligned}$$

But

$$\left[\frac{\partial \phi}{\partial r} \right]_0 = \left[\frac{\partial \phi}{\partial \chi} \right]_0 = \left[\frac{\partial \phi}{\partial (-\chi)} \right]_0 = - \left[\frac{\partial \phi}{\partial \chi} \right]_0 = 0.$$

Therefore

$$\lim_{r \rightarrow 0} (N-1) \frac{\frac{\partial \phi}{\partial r} - 0}{r} = (N-1) \lim_{r \rightarrow 0} \frac{\left[\frac{\partial \phi}{\partial r} \right]_r - \left[\frac{\partial \phi}{\partial r} \right]_0}{r} = (N-1) \left[\frac{\partial}{\partial r} \frac{\partial \phi}{\partial r} \right]_0,$$

and

$$\left[\nabla^2 \phi \right]_0 = \left[N \frac{\partial^2 \phi}{\partial r^2} \right]_0.$$

For $\frac{\partial^2}{\partial r^2}$ we have the usual expression $\frac{\phi(-\Delta r) - 2\phi(0) + \phi(\Delta r)}{(\Delta r)^2},$

where $r = -\Delta r$ is a fictitious point used only to derive the boundary condition at $r = 0$.