HYBRID COMPUTER SIMULATION
OF PHYSBE*

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Introduction

Since PHYSBE was first proposed by McLeod⁽¹⁾ five years ago, there have been several attempts to simulate the model using various techniques.^(2,3,4) The model was originally proposed as a standard circulatory model, simple enough to easily implement, yet with enough complexity to accurately portray the pressure-volume-flow relationships of the cardiovascular system. However the model has been a standard device for checking various simulation techniques whether analog, hybrid or digital.

So far PHYSBE has been programmed all analog, on MIMIC, CSMP-1130, DSL/90 (digital simulation languages), FORTRAN, DARE, and for a hybrid computer. The FORTRAN simulation was run on a CDC 3600 and a SDS 940. DSL/90 and MIMIC solutions were obtained on an IBM 7090. A hybrid solution was obtained on a SDS 930 - EAI 680 computer. DARE is a CSSL type digital simulation language using a PDP-9.

Recently discrepancies between the various published solutions have been discovered and errors corrected. In addition, two more PHYSBE simulations have been implemented; one by Benham⁽⁵⁾ and the one discussed in this paper.

Model Description

Figure 1 is a block diagram of PHYSBE showing the equations and all of the interrelationships.

Discussion

The model was first coded using MIMIC and solved on a UNIVAC 1108 digital computer. It took 28 seconds of computer time to compile and run. The results were used to optimally scale the fixed-point hybrid simulation. The hybrid solution, which matched the MIMIC run for the first four heart beats, used digital integrators. It was run in 1/20 real-time and sampled so that comparisons could be made at similar points in time. If the hybrid model (with digital integrators) could have been run even slower a better comparison with the MIMIC "standard" would have resulted.

Since real-time simulation was the goal of this project, the digital integrators were replaced by analog integrators. To obtain a steady state solution

*PHYSiological Simulation Benchmark Experiment

Figure 1. Block Diagram of PHYSBE

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a "twiddle" pot was placed in the systemic circuit. It was adjusted until 0.5 ml/sec was added to the derivative. In order to obtain as much of the available accuracy of scaled fixed point coding as possible, relative rather than absolute changes in the variables are integrated. Because of this and because of developing the sampling routine, the coding and debug took about one week. The real-time simulation was worth the effort however.

The Appendices contain the documentation of all phases of the solution of PHYSBE. Appendix 1 contains the MIMIC code and results. Appendix 2 contains the hybrid code (digital integrators) and results which compare favorably with the MIMIC results. Appendix 3 contains the same hybrid code with analog integrators replacing the digital ones. The results of these runs are in the form of strip chart recordings (Figure 2). The dots on the strip chart output show the MIMIC and PHSBED results (fifth heart beat) for comparison. The simulation still hasn't reached steady-state which explains the discrepancies. A comparison was not made of the systemic circuit.

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PHYSBEH

Figure 2. Results of PHYSBE Simulation

References

1. McLeod, J., "PHYSBE... A Physiological Simulation," SIMULATION, Vol. 7, No. 6, pp. 321-329, December 1966.
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3. McLeod J., "Toward Uniform Documentation - PHYSBE and 1130 CSMP," SIMULATION, Vol. 14, No. 5, pp. 215-220, May 1970.
4. Korn, G.A., J. McLeod and J. Wait, "DARE/PHYSBE," SIMULATION, Vol. 15, No. 5, pp. 229-231, November 1970.
5. Benham, R.D., "A PDP-8 (ISL-8) Study of PHYSBE"

APPENDIX 1

MIMIC Solution of PHYSBE

MIMIC SOURCE-LANGUAGE PROGRAM

PHYSBE
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CON(OT,STOP)
RVCOMP CFN(12.1)
LVCOMP CFN(12.1)
SAWTOOTH
D FSW(TT-0.98,TRUE,FALSE,FALSE)
TT INT(1.0,0.0,TRUE,D)
VENA CAVA (VC)
PVC 0.004*VVC
FVS 1.65*(PSC-PVC)
VLVC FVS-FTV
VVC INT(VDVC,500.0)
RIGHT VENTRICLE (RV)
CRVM1 FUN(RVCOMP,TT)
PRV VRV*CRVM1
DPVCRV PVC-PRV
FTV FSW(DPVCRV,0.0,0.0,78.*DPVCRV)
VLRV FTV-FPV
VRV INT(VDRV,150.0)
PULMONARY ARTERIAL SYSTEM (AP)
PAP 0.133*VAP
DPRVAP PRV-PAP
FPV FSW(DPRVAP,0.0,0.0,90.0*DPRVAP)
VDAP FPV-FPS
VAP INT(VDAP,120.0)
PULMONARY VEINUS SYSTEM (VP)
PVP 0.033*VVP
FPS 7.*(PAP-PVP)
VDVP FPS-FMV
VVP INT(VDVP,240.0)
LEFT VENTRICLE (LV)
CLVM1 FUN(LVCOMP,TT)
PLV VLV*CLVM1
DPVPLV PVP-PLV
FMV FSW(DPVPLV,0.0,0.0,17.81*DPVPLV)
VDLV FMV-FAV
VLV INT(VDLV,150.0)
AORTA (AO)
PAO 0.8*VAO
DPLVAO PLV-PAO
FAV FSW(DPLVAO,0.0,0.0,80.0*DPLVAO)
VDAO FAV-FAS
VAO INT(VDAO,100.0)
SYSTEMIC CIRCULATION (SC)

```

PSC	0.0153*VSC
FAS	1.63*(PAO-PSC)
VDSC	FAS-FVS
VSC	INT(VDSC,33,0.0)
	FIN(T,STOP)
	OUT(T,PVC,FVS,VDVC,VVC)
	OUT(TT,PRV,ETV,VDRV,VRV)
	OUT(,PAP,FPS,VDAP,VAP)
	OUT(,PVP,FPS,VDVP,VVP)
	OUT(,PLV,FPS,VDLV,VLV)
	OUT(,PAO,FAV,VDPO,VPO)
	OUT(,PSC,FAS,VDSC,VSC)
	OUT
	END

FUNCTION-LANGUAGE PROGRAM GENERATED

IFN	LCV	RESULT	FIN	A	B	C	D	E	F
1			CON	DT	STOP				
2		RVCOMP	CFN	12.1					
3		LVCOMP	CFN	12.1					
4		(004)	SUB	TT	0.98				
5		D	FSW	(004)	TRUE	FALSE	FALSE		
6		TT	INT	1.0	0.0	TRUE	D		
7		PVC	MPY	0.004	VVC				
8		CRVM1	FUN	RVCOMP	TT				
9		PRV	MPY	VRV	CRVM1				
10		DPVCRV	SUB	PVC	PRV				
11		(015)	MPY	78.	DPVCRV				
12		FTV	FSW	DPVCRV	0.0	0.0	(015)		
13		PAP	MPY	0.133	VAP				
14		DPRVAP	SUB	PRV	PAP				
15		(021)	MPY	90.0	DPRVAP				
16		FPV	FSW	DPRVAP	0.0	0.0	(021)		
17		PVP	MPY	0.033	VVP				
18		(026)	SUB	PAP	PVP				
19		FPS	MPY	7.	(026)				
20		CLVM1	FUN	LVCOMP	TT				
21		PLV	MPY	VLV	CLVM1				
22		DPVPLV	SUB	PVP	PLV				
23		(033)	MPY	17.81	DPVPLV				
24		FMV	FSW	DPVPLV	0.0	0.0	(033)		
25		PAO	MPY	0.8	VAO				
26		DPLVAO	SUB	PLV	PAO				
27		(039)	MPY	80.0	DPLVAO				
28		FAV	FSW	DPLVAO	0.0	0.0	(039)		
29		PSC	MPY	0.0153	VSC				
30		(044)	SUB	PAO	PSC				
31		FAS	MPY	1.63	(044)				
32			FIN	T	STOP				
33		(008)	SUB	PSC	PVC				
34		FVS	MPY	1.65	(008)				
35		VDVC	SUB	FAS	FTV				
36		VVC	INT	VDVC	500.0				
37		VCRV	SUB	FTV	FPV				
38		VRV	INT	VCRV	150.0				
39		VDAP	SUB	FPV	FPS				
40		VAP	INT	VDAP	120.0				
41		VDVP	SUB	FPS	FMV				
42		VVP	INT	VDVP	240.0				
43		VDLV	SUB	FAV	FAV				
44		VLV	INT	VDLV	150.0				

45	VDA0	SUB	FAV	FAS			
46	VA0	INT	VDA0	100.0			
47	VLSC	SUB	FAS	FVS			
48	VSC	INT	VDSC	3340.0			
49		OUT	T	PVC	FVS	VDVC	VVC
50		OUT	TT	PRV	FTV	VDRV	VRV
51		OUT		PAP	FPV	VDAP	VAP
52		OUT		PVP	FPS	VJVP	VVP
53		OUT		PLV	FMV	VDLV	VLV
54		OUT		PA0	FAV	VDA0	VA0
55		OUT		PSC	FAS	VDSC	VSC
56		OUT					
57		END					

Et	STOP
2.00000-02	5.00000+00

12.		RVCMP	
0.00000	3.30000-03	-0.00000	
4.00000-02	5.00000-02	-0.00000	
8.00000-02	1.00000-01	-0.00000	
1.20000-01	1.50000-01	-0.00000	
1.50000-01	1.90000-01	-0.00000	
2.00000-01	2.40000-01	-0.00000	
2.40000-01	3.00000-01	-0.00000	
2.80000-01	3.60000-01	-0.00000	
3.20000-01	4.00000-01	-0.00000	
3.50000-01	3.00000-01	-0.00000	
4.00000-01	3.30000-03	-0.00000	
1.00000+00	3.30000-03	-0.00000	

12.		LVCMP	
0.00000	6.60000-03	-0.00000	
4.00000-02	6.00000-01	-0.00000	
8.00000-02	1.00000+00	-0.00000	
1.20000-01	1.25000+00	-0.00000	
1.50000-01	1.40000+00	-0.00000	
2.00000-01	1.50000+00	-0.00000	
2.40000-01	1.60000+00	-0.00000	
2.80000-01	1.60000+00	-0.00000	
3.20000-01	1.50000+00	-0.00000	
3.50000-01	1.00000+00	-0.00000	
4.00000-01	6.60000-03	-0.00000	
1.00000+00	6.60000-03	-0.00000	

EXECUTION

T	0.00000	PVC	2.00000+00	FVS	8.10183+01	VDVC	-3.63717+01	VVC	5.00000+02
TT	0.00000	PRV	4.95000+01	FTV	1.17390+02	VDRV	1.17390+02	VRV	1.50000+02
		PAP	1.59600+01	FPV	0.00000	VDAP	-5.62500+01	VAP	1.20000+02
		PVP	7.92000+00	FPS	5.62800+01	VDVP	-6.71433+01	VVP	2.40000+02
		PLV	9.00000+01	FMV	1.23423+02	VDLV	1.23423+02	VLV	1.50000+02
		PAO	8.00000+01	FAV	0.00000	VDAO	-4.71037+01	VAO	1.00000+02
		PSC	5.11020+01	FAS	4.71037+01	VDSC	-3.39140+01	VSC	3.34000+03
<hr/>									
T	2.00000-02	PVC	2.00440+00	FVS	8.09935+01	VDVC	8.09935+01	VVC	5.01119+02
TT	2.00000-02	PRV	4.01064+00	FTV	0.00000	VDRV	0.00000	VRV	1.50501+02
		PAP	1.56119+01	FPV	0.00000	VDAP	-5.50311+01	VAP	1.18687+02
		PVP	7.95032+00	FPS	5.50311+01	VDVP	5.50311+01	VVP	2.40919+02
		PLV	4.55541+01	FMV	0.00000	VDLV	0.00000	VLV	1.50195+02
		PAO	7.92559+01	FAV	0.00000	VDAO	-4.59081+01	VAO	9.90699+01
		PSC	5.10910+01	FAS	4.59081+01	VDSC	-3.50853+01	VSC	3.33931+03
<hr/>									
T	4.00000-02	PVC	2.01090+00	FVS	8.09649+01	VDVC	8.09649+01	VVC	5.02739+02
TT	4.00000-02	PRV	7.52503+00	FTV	0.00000	VDRV	0.00000	VRV	1.50501+02
		PAP	1.56672+01	FPV	0.00000	VDAP	-5.37669+01	VAP	1.17799+02
		PVP	7.98622+00	FPS	5.37669+01	VDVP	5.37669+01	VVP	2.42007+02
		PLV	8.89260+01	FMV	0.00000	VDLV	-7.05040+02	VLV	1.48211+02
		PAO	8.01137+01	FAV	7.05046+02	VDAO	6.57722+02	VAO	1.00142+02
		PSC	5.10800+01	FAS	4.73239+01	VDSC	-3.36410+01	VSC	3.33860+03
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T	6.00000-02	PVC	2.01743+00	FVS	8.09425+01	VDVC	8.09425+01	VVC	5.04358+02
TT	6.00000-02	PRV	1.12875+01	FTV	0.00000	VDRV	0.00000	VRV	1.50501+02
		PAP	1.55250+01	FPV	0.00000	VDAP	-5.25316+01	VAP	1.16736+02
		PVP	8.02130+00	FPS	5.25318+01	VDVP	5.25318+01	VVP	2.43070+02
		PLV	1.04566+02	FMV	0.00000	VDLV	-9.00017+02	VLV	1.30631+02
		PAO	9.32544+01	FAV	0.00017+02	VDAO	5.31262+02	VAO	1.16568+02
		PSC	5.10730+01	FAS	6.87548+01	VDSC	-1.21677+01	VSC	3.33814+03
<hr/>									
T	8.00000-02	PVC	2.02391+00	FVS	8.09308+01	VDVC	8.09308+01	VVC	5.05977+02
TT	8.00000-02	PRV	1.50501+01	FTV	0.00000	VDRV	0.00000	VRV	1.50501+02
		PAP	1.53877+01	FPV	0.00000	VDAP	-5.13250+01	VAP	1.15697+02
		PVP	8.05557+00	FPS	5.13250+01	VDVP	5.13250+01	VVP	2.44108+02
		PLV	1.14252+02	FMV	0.00000	VDLV	-7.32436+02	VLV	1.14252+02
		PAO	1.05090+02	FAV	7.32436+02	VDAO	6.44370+02	VAO	1.31370+02
		PSC	5.10720+01	FAS	6.80583+01	VDSC	7.12753+00	VSC	3.33810+03
<hr/>									
T	1.00000-01	PVC	2.03003+00	FVS	8.09268+01	VDVC	8.09268+01	VVC	5.07595+02
TT	1.00000-01	PRV	1.34924+01	FTV	0.00000	VDRV	-2.01183+02	VRV	1.47939+02
		PAP	1.55915+01	FPV	2.61083+02	VDAP	2.00570+02	VAP	1.17229+02
		PVP	8.08955+00	FPS	5.25134+01	VDVP	5.25134+01	VVP	2.45138+02
		PLV	1.16952+02	FMV	0.00000	VDLV	-4.10179+02	VLV	1.03957+02
		PAO	1.11020+02	FAV	4.10179+02	VDAO	3.11100+02	VAO	1.39781+02
		PSC	5.10700+01	FAS	6.90190+01	VDSC	1.50922+01	VSC	3.33836+03

T	1.20000-01	PVC	2.03580+00	FVS	8.09271+01	VDVC	8.09271+01	VVC	5.09214+02
TT	1.20000-01	PRV	2.11302+01	FTV	0.00000	VDRV	-4.27101+02	VRV	1.40872+02
		PAP	1.63853+01	FPV	4.27101+02	VDAP	3.69285+02	VAP	1.23198+02
		PVP	8.12581+00	FPS	5.78164+01	VDVP	5.78164+01	VVP	2.46236+02
		PLV	1.20556+02	FMV	0.00000	VLLV	-3.49043+02	VLV	9.64440+01
		PAO	1.16192+02	FAV	3.49043+02	VDAO	2.42916+02	VAO	1.45240+02
		PSC	5.10031+01	FAS	1.06127+02	VDSC	2.51995+01	VSC	3.33880+03
T	1.40000-01	PVC	2.04333+00	FVS	8.09302+01	VDVC	8.09302+01	VVC	5.10832+02
TT	1.40000-01	PRV	2.24392+01	FTV	0.00000	VDRV	-4.53256+02	VRV	1.31996+02
		PAP	1.74031+01	FPV	4.53256+02	VDAP	3.69593+02	VAP	1.30850+02
		PVP	8.16619+00	FPS	6.46581+01	VDVP	6.46581+01	VVP	2.47460+02
		PLV	1.21125+02	FMV	0.00000	VLLV	-2.11+18+02	VLV	9.14154+01
		PAO	1.18483+02	FAV	2.11418+02	VDAO	1.01572+02	VAO	1.48103+02
		PSC	5.10919+01	FAS	1.09547+02	VDSC	2.39167+01	VSC	3.33934+03
T	1.60000-01	PVC	2.04981+00	FVS	8.09347+01	VDVC	8.09347+01	VVC	5.12451+02
TT	1.60000-01	PRV	2.33646+01	FTV	0.00000	VDRV	-4.44322+02	VRV	1.22972+02
		PAP	1.84221+01	FPV	4.44322+02	VDAP	3.73545+02	VAP	1.38512+02
		PVP	8.21111+00	FPS	7.14769+01	VDVP	7.14769+01	VVP	2.48822+02
		PLV	1.22346+02	FMV	0.00000	VLLV	-1.33576+02	VLV	8.73899+01
		PAO	1.19926+02	FAV	1.93570+02	VDAO	8.13855+01	VAO	1.49908+02
		PSC	5.11012+01	FAS	1.12185+02	VDSC	3.12501+01	VSC	3.33995+03
T	1.80000-01	PVC	2.05621+00	FVS	8.09401+01	VDVC	8.09401+01	VVC	5.14070+02
TT	1.80000-01	PRV	2.44377+01	FTV	0.00000	VDRV	-4.55182+02	VRV	1.13896+02
		PAP	1.94301+01	FPV	4.55182+02	VDAP	3.76395+02	VAP	1.46091+02
		PVP	8.26052+00	FPS	7.81370+01	VDVP	7.81370+01	VVP	2.50319+02
		PLV	1.22282+02	FMV	0.00000	VLLV	-1.37137+02	VLV	8.43322+01
		PAO	1.20587+02	FAV	1.37137+02	VDAO	2.39235+01	VAO	1.50709+02
		PSC	5.11100+01	FAS	1.13214+02	VDSC	3.22740+01	VSC	3.34058+03
T	2.00000-01	PVC	2.06271+00	FVS	8.09459+01	VDVC	8.09459+01	VVC	5.15689+02
TT	2.00000-01	PRV	2.51960+01	FTV	0.00000	VDRV	-4.31665+02	VRV	1.04987+02
		PAP	2.03980+01	FPV	4.31665+02	VDAP	3.47270+02	VAP	1.53371+02
		PVP	8.31427+00	FPS	8.45883+01	VDVP	8.45883+01	VVP	2.51948+02
		PLV	1.22505+02	FMV	0.00000	VLLV	-1.29903+02	VLV	8.16701+01
		PAO	1.20381+02	FAV	1.29903+02	VDAO	1.51930+01	VAO	1.51102+02
		PSC	5.11200+01	FAS	1.13710+02	VDSC	3.27638+01	VSC	3.34123+03
T	2.20000-01	PVC	2.06923+00	FVS	8.09518+01	VDVC	8.09518+01	VVC	5.17308+02
TT	2.20000-01	PRV	2.60191+01	FTV	0.00000	VDRV	-4.23650+02	VRV	9.63669+01
		PAP	2.13111+01	FPV	4.23650+02	VDAP	3.33672+02	VAP	1.60239+02
		PVP	8.37200+00	FPS	9.05782+01	VDVP	9.05782+01	VVP	2.53700+02
		PLV	1.22548+02	FMV	0.00000	VLLV	-1.24425+02	VLV	7.91279+01
		PAO	1.21093+02	FAV	1.24425+02	VDAO	1.03173+01	VAO	1.51366+02
		PSC	5.11300+01	FAS	1.14038+02	VDSC	3.30665+01	VSC	3.34189+03
T	2.40000-01	PVC	2.07571+00	FVS	8.09579+01	VDVC	8.09579+01	VVC	5.18927+02

TT	2.40000-01	PRV	2.64652+01	FTV	0.00000	VDRV	-3.88607+02	VRV	8.82175+01
		PAP	2.21474+01	FPV	3.88607+02	VDAP	2.92611+02	VAP	1.66522+02
		PVP	8.43371+00	FPS	9.59958+01	VDVP	9.59958+01	VVP	2.55567+02
		PLV	1.22707+02	FMV	0.00000	VDLV	-1.19282+02	VLV	7.66917+01
		PAO	1.21211+02	FAV	1.19282+02	VDAO	5.86071+00	VAO	1.51526+02
		PSC	5.11411+01	FAS	1.14222+02	VOSC	5.32637+01	VSC	3.34256+03
T	2.60000-01	PVC	2.68218+00	FVS	8.09637+01	VDVC	8.09637+01	VVC	5.20546+02
TT	2.60000-01	PRV	2.66901+01	FTV	0.00000	VDRV	-3.44606+02	VRV	8.06805+01
		PAP	2.28616+01	FPV	3.44606+02	VDAP	2.44606+02	VAP	1.71692+02
		PVP	8.49861+00	FPS	1.00541+02	VDVP	1.00541+02	VVP	2.57534+02
		PLV	1.20831+02	FMV	0.00000	VDLV	-3.95451+01	VLV	7.55188+01
		PAO	1.20336+02	FAV	5.95451+01	VDAO	-7.32261+01	VAO	1.50420+02
		PSC	5.11511+01	FAS	1.12771+02	VOSC	5.13074+01	VSC	3.34321+03
T	2.80000-01	PVC	2.68861+00	FVS	8.09686+01	VDVC	8.09686+01	VVC	5.22165+02
TT	2.80000-01	PRV	2.67941+01	FTV	0.00000	VDRV	-3.01210+02	VRV	7.44281+01
		PAP	2.34471+01	FPV	3.01210+02	VDAP	1.97042+02	VAP	1.76296+02
		PVP	8.56622+00	FPS	1.04168+02	VDVP	1.04168+02	VVP	2.59582+02
		PLV	1.19618+02	FMV	0.00000	VDLV	-3.71521+01	VLV	7.47610+01
		PAO	1.19153+02	FAV	5.71521+01	VDAO	-7.36761+01	VAO	1.48942+02
		PSC	5.11605+01	FAS	1.10528+02	VOSC	2.98590+01	VSC	3.34383+03
T	3.00000-01	PVC	2.09514+00	FVS	8.09723+01	VDVC	8.09723+01	VVC	5.23785+02
TT	3.00000-01	PRV	2.63254+01	FTV	0.00000	VDRV	-2.22622+02	VRV	6.92774+01
		PAP	2.38518+01	FPV	2.22622+02	VDAP	1.16110+02	VAP	1.79337+02
		PVP	8.53582+00	FPS	1.06512+02	VDVP	1.06512+02	VVP	2.61692+02
		PLV	1.15787+02	FMV	0.00000	VDLV	0.00000	VLV	7.47010+01
		PAO	1.17450+02	FAV	0.00000	VDAO	-1.08038+02	VAO	1.46812+02
		PSC	5.11692+01	FAS	1.08038+02	VOSC	2.70653+01	VSC	3.34440+03
T	3.20000-01	PVC	2.10162+00	FVS	8.09745+01	VDVC	8.09745+01	VVC	5.25404+02
TT	3.20000-01	PRV	2.61121+01	FTV	0.00000	VDRV	-1.61248+02	VRV	6.52802+01
		PAP	2.40933+01	FPV	1.81240+02	VDAP	7.54976+01	VAP	1.81190+02
		PVP	8.70657+00	FPS	1.07742+02	VDVP	1.07742+02	VVP	2.63835+02
		PLV	1.12051+02	FMV	0.00000	VDLV	0.00000	VLV	7.47010+01
		PAO	1.15741+02	FAV	0.00000	VDAO	-1.05244+02	VAO	1.44680+02
		PSC	5.11771+01	FAS	1.05244+02	VOSC	2.42392+01	VSC	3.34491+03
T	3.40000-01	PVC	2.10800+00	FVS	8.09754+01	VDVC	8.09754+01	VVC	5.27024+02
TT	3.40000-01	PRV	2.25407+01	FTV	0.00000	VDRV	0.00000	VRV	6.44019+01
		PAP	2.39304+01	FPV	0.00000	VDAP	-1.00069+02	VAP	1.79925+02
		PVP	8.77731+00	FPS	1.06069+02	VDVP	1.06069+02	VVP	2.65979+02
		PLV	9.33763+01	FMV	0.00000	VDLV	0.00000	VLV	7.47010+01
		PAO	1.14002+02	FAV	0.00000	VDAO	-1.02523+02	VAO	1.42602+02
		PSC	5.11841+01	FAS	1.02523+02	VOSC	2.15476+01	VSC	3.34537+03
T	3.60000-01	PVC	2.11457+00	FVS	8.09749+01	VDVC	8.09749+01	VVC	5.28843+02
TT	3.60000-01	PRV	1.93291+01	FTV	0.00000	VDRV	0.00000	VRV	6.44019+01

		PAP	2.36512+01	FPV	0.00000	VDAP	-1.03633+02	VAP	1.77828+02
		PVP	8.84650+00	FPS	1.03633+02	VDVP	1.03633+02	VVP	2.68076+02
		PLV	7.47010+01	FMV	0.00000	VDLV	0.00000	VLV	7.47010+01
		PAO	1.12463+02	FAV	0.00000	VDAO	-9.93740+01	VAO	1.40578+02
		PSC	5.11903+01	FAS	9.98740+01	VDSC	1.55991+01	VSC	3.34577+03
T	3.80000-01	PVC	2.12105+00	FVS	8.09731+01	VDVC	8.09731+01	VVC	5.30262+02
TT	3.60000-01	PRV	9.75550+00	FTV	0.00000	VDRV	0.00000	VRV	6.44019+01
		PAP	2.33767+01	FPV	0.00000	VDAP	-1.01252+02	VAP	1.75779+02
		PVP	8.9141+00	FPS	1.01252+02	VDVP	1.01252+02	VVP	2.70125+02
		PLV	3.75971+01	FMV	0.00000	VDLV	0.00000	VLV	7.47010+01
		PAO	1.10835+02	FAV	0.00000	VDAO	-9.72943+01	VAO	1.38607+02
		PSC	5.11957+01	FAS	9.72943+01	VDSC	1.53212+01	VSC	3.34612+03
T	4.00000-01	PVC	2.12631+00	FVS	8.09720+01	VDVC	-6.62246+01	VVC	5.31582+02
TT	4.00000-01	PRV	2.13550-01	FTV	1.49197+02	VDRV	1.49197+02	VRV	6.47014+01
		PAP	2.31126+01	FPV	0.00000	VDAP	-9.90054+01	VAP	1.73778+02
		PVP	8.90331+00	FPS	9.90054+01	VDVP	-5.19052+01	VVP	2.71782+02
		PLV	4.95485-01	FMV	1.50411+02	VDLV	1.50911+02	VLV	7.50454+01
		PAO	1.09340+02	FAV	0.00000	VDAO	-9.47623+01	VAO	1.36686+02
		PSC	5.12003+01	FAS	9.47823+01	VDSC	1.38103+01	VSC	3.34642+03
T	4.20000-01	PVC	2.12092+00	FVS	8.09873+01	VDVC	-6.70255+01	VVC	5.30230+02
TT	4.20000-01	PRV	2.23323-01	FTV	1.48013+02	VDRV	1.48013+02	VRV	6.76735+01
		PAP	2.28512+01	FPV	0.00000	VDAP	-9.74160+01	VAP	1.71814+02
		PVP	8.93430+00	FPS	9.74180+01	VDVP	-5.25277+01	VVP	2.70738+02
		PLV	5.15158-01	FMV	1.49946+02	VDLV	1.49946+02	VLV	7.60539+01
		PAO	1.07952+02	FAV	0.00000	VDAO	-9.23301+01	VAO	1.34815+02
		PSC	5.12041+01	FAS	9.23361+01	VDSC	1.13466+01	VSC	3.34668+03
T	4.40000-01	PVC	2.11561+00	FVS	8.10012+01	VDVC	-6.50379+01	VVC	5.28901+02
TT	4.40000-01	PRV	2.33053-01	FTV	1.46839+02	VDRV	1.46839+02	VRV	7.06220+01
		PAP	2.25941+01	FPV	0.00000	VDAP	-9.50020+01	VAP	1.69681+02
		PVP	8.59940+00	FPS	9.58526+01	VDVP	-5.31103+01	VVP	2.69681+02
		PLV	5.34888-01	FMV	1.48973+02	VDLV	1.48973+02	VLV	8.10431+01
		PAO	1.06396+02	FAV	0.00000	VDAO	-8.99542+01	VAO	1.32992+02
		PSC	5.12072+01	FAS	8.99542+01	VDSC	8.95297+00	VSC	3.34686+03
T	4.60000-01	PVC	2.11036+00	FVS	8.10137+01	VDVC	-6.46653+01	VVC	5.27596+02
TT	4.60000-01	PRV	2.42706-01	FTV	1.45679+02	VDRV	1.45679+02	VRV	7.35471+01
		PAP	2.23419+01	FPV	0.00000	VDAP	-9.43380+01	VAP	1.67979+02
		PVP	8.86424+00	FPS	9.43386+01	VDVP	-5.33382+01	VVP	2.68613+02
		PLV	5.54431-01	FMV	1.47997+02	VDLV	1.47997+02	VLV	8.40129+01
		PAO	1.04973+02	FAV	0.00000	VDAO	-8.76347+01	VAO	1.31217+02
		PSC	5.12098+01	FAS	8.76347+01	VDSC	8.62093+00	VSC	3.34703+03
T	4.80000-01	PVC	2.10520+00	FVS	8.10250+01	VDVC	-6.35072+01	VVC	5.26315+02
TT	4.80000-01	PRV	2.52298-01	FTV	1.44532+02	VDRV	1.44532+02	VRV	7.64492+01
		PAP	2.20920+01	FPV	0.00000	VDAP	-9.26456+01	VAP	1.66107+02

		PVP	8.82066+00	FPS	9.28450+01	VDVP	-5.41712+01	VVP	2.67535+02
		PLV	5.73958+01	FMV	1.47016+02	VDLV	1.47016+02	VLV	8.69630+01
		PAO	1.03580+02	FAV	0.00000	VDAO	-8.53760+01	VAO	1.29487+02
		PSC	5.12113+01	FAS	8.53760+01	VDSC	4.35104+00	VSC	3.34714+03
T	5.00000-01	PVC	2.10022+00	FVS	8.10349+01	VDVC	-6.23634+01	VVC	5.25056+02
TT	5.00000-01	PRV	2.61786+01	FTV	1.43398+02	VDRV	1.43398+02	VRV	7.93285+01
		PAP	2.18472+01	FPV	0.00000	VDAP	-9.13613+01	VAP	1.64265+02
		PVP	8.79276+00	FPS	9.13813+01	VDVP	-5.46506+01	VVP	2.60447+02
		PLV	5.93297+01	FMV	1.46032+02	VDLV	1.46032+02	VLV	8.98935+01
		PAO	1.02241+02	FAV	0.00000	VDAO	-8.51760+01	VAO	1.27801+02
		PSC	5.12123+01	FAS	8.31766+01	VDSC	2.14108+00	VSC	3.34721+03
T	5.20000-01	PVC	2.09526+00	FVS	8.10436+01	VDVC	-6.12336+01	VVC	5.23820+02
TT	5.20000-01	PRV	2.71211+01	FTV	1.42277+02	VDRV	1.42277+02	VRV	8.21852+01
		PAP	2.16061+01	FPV	0.00000	VDAP	-8.99467+01	VAP	1.62452+02
		PVP	8.75653+00	FPS	8.99467+01	VDVP	-5.50982+01	VVP	2.65349+02
		PLV	6.12501+01	FMV	1.45045+02	VDLV	1.45045+02	VLV	9.28043+01
		PAO	1.00927+02	FAV	0.00000	VDAO	-8.10349+01	VAO	1.26159+02
		PSC	5.12126+01	FAS	8.10349+01	VDSC	-8.72996+03	VSC	3.34723+03
T	5.40000-01	PVC	2.09043+00	FVS	8.10511+01	VDVC	-6.01181+01	VVC	5.22607+02
TT	5.40000-01	PRV	2.80565+01	FTV	1.41169+02	VDRV	1.41169+02	VRV	8.50197+01
		PAP	2.13687+01	FPV	0.00000	VDAP	-8.85406+01	VAP	1.60667+02
		PVP	8.72002+00	FPS	8.85406+01	VDVP	-5.55144+01	VVP	2.64243+02
		PLV	6.31586+01	FMV	1.44055+02	VDLV	1.44055+02	VLV	9.56953+01
		PAO	9.96476+01	FAV	0.00000	VDAO	-7.89493+01	VAO	1.24559+02
		PSC	5.12123+01	FAS	7.89493+01	VDSC	-2.10175+00	VSC	3.34721+03
T	5.60000-01	PVC	2.08566+00	FVS	8.10573+01	VDVC	-5.90162+01	VVC	5.21415+02
TT	5.60000-01	PRV	2.89346+01	FTV	1.40074+02	VDRV	1.40074+02	VRV	8.78321+01
		PAP	2.11350+01	FPV	0.00000	VDAP	-8.71522+01	VAP	1.58910+02
		PVP	8.68325+00	FPS	8.71622+01	VDVP	-5.59004+01	VVP	2.63129+02
		PLV	6.50538+01	FMV	1.43063+02	VDLV	1.43063+02	VLV	9.85664+01
		PAO	9.34006+01	FAV	0.00000	VDAO	-7.89185+01	VAO	1.23001+02
		PSC	5.12113+01	FAS	7.69185+01	VDSC	-4.13386+00	VSC	3.34715+03
T	5.80000-01	PVC	2.08096+00	FVS	8.10625+01	VDVC	-5.79279+01	VVC	5.20246+02
TT	5.80000-01	PRV	2.99055+01	FTV	1.38990+02	VDRV	1.38990+02	VRV	9.06227+01
		PAP	2.09055+01	FPV	0.00000	VDAP	-8.58110+01	VAP	1.57180+02
		PVP	8.64626+00	FPS	8.58110+01	VDVP	-5.62573+01	VVP	2.62007+02
		PLV	6.69357+01	FMV	1.42068+02	VDLV	1.42068+02	VLV	1.01418+02
		PAO	9.71858+01	FAV	0.00000	VDAO	-7.49409+01	VAO	1.21482+02
		PSC	5.12096+01	FAS	7.49409+01	VDSC	-6.12157+00	VSC	3.34704+03
T	6.00000-01	PVC	2.07538+00	FVS	8.10665+01	VDVC	-5.68631+01	VVC	5.19098+02
TT	6.00000-01	PRV	3.06193+01	FTV	1.37920+02	VDRV	1.37920+02	VRV	9.33918+01
		PAP	2.06768+01	FPV	0.00000	VDAP	-8.44802+01	VAP	1.55477+02
		PVP	8.60906+00	FPS	8.44802+01	VDVP	-5.55866+01	VVP	2.60579+02

		PLV	6.88041-01	FMV	1.41072+02	VDLV	1.41072+02	VLV	1.04249+02
		PAO	9.50021+01	FAV	0.00000	VDAU	-7.30152+01	VAO	1.20003+02
		PSC	5.12071+01	FAS	7.30152+01	VDSC	-8.05127+00	VSC	3.34690+03
T	6.20000-01	PVC	2.07180+00	FVS	0.10694+01	VDVC	-5.57915+01	VVC	5.17972+02
TT	6.20000-01	PRV	3.17261-01	FTV	1.35861+02	VDKV	1.35861+02	VRV	9.61390+01
		PAP	2.04558+01	FPV	0.00000	VDAP	-6.51374-01	VAP	1.53800+02
		PVP	8.57158+00	FPS	0.31374+01	VDVP	-5.55371+01	VVP	2.59744+02
		PLV	7.06680-01	FMV	1.40075+02	VDLV	1.40075+02	VLV	1.07061+02
		PAO	9.42491+01	FAV	0.00000	VDAU	-7.11408+01	VAO	1.15061+02
		PSC	5.12041+01	FAS	7.11400+01	VDSC	-9.42933+00	VSC	3.34672+03
T	6.40000-01	PVC	2.06747+00	FVS	0.10712+01	VDVC	-5.47429+01	VVC	5.18366+02
TT	6.40000-01	PRV	3.26258-01	FTV	1.35814+02	VDKV	1.35814+02	VRV	9.68563+01
		PAP	2.02350+01	FPV	0.00000	VDAP	-6.13138+01	VAP	1.52149+02
		PVP	8.53391+00	FPS	0.19138+01	VDVP	-5.71826+01	VVP	2.55503+02
		PLV	7.25024-01	FMV	1.39076+02	VDLV	1.39076+02	VLV	1.09352+02
		PAO	9.37255+01	FAV	0.00000	VDAU	-6.93140+01	VAO	1.17157+02
		PSC	5.12018+01	FAS	6.93140+01	VDSC	-1.17572+01	VSC	3.34650+03
T	6.60000-01	PVC	2.06313+00	FVS	0.10720+01	VDVC	-5.37575+01	VVC	5.15782+02
TT	6.60000-01	PRV	3.35131-01	FTV	1.34779+02	VDKV	1.34779+02	VRV	1.01572+02
		PAP	2.00197+01	FPV	0.00000	VDAP	-6.06644+01	VAP	1.50521+02
		PVP	8.49610+00	FPS	0.06349+01	VDVP	-5.74123+01	VVP	2.57458+02
		PLV	7.43318-01	FMV	1.38077+02	VDLV	1.38077+02	VLV	1.12624+02
		PAO	9.26307+01	FAV	0.00000	VDAU	-6.75355+01	VAO	1.15786+02
		PSC	5.11976+01	FAS	6.75359+01	VDSC	-1.55361+01	VSC	3.34625+03
T	6.80000-01	PVC	2.05887+00	FVS	0.10717+01	VDVC	-5.26844+01	VVC	5.14713+02
TT	6.80000-01	PRV	3.44081-01	FTV	1.33756+02	VDKV	1.33756+02	VRV	1.04258+02
		PAP	1.93967+01	FPV	0.00000	VDAP	-7.94401+01	VAP	1.48923+02
		PVP	8.45810+00	FPS	7.94401+01	VDVP	-5.76574+01	VVP	2.50307+02
		PLV	7.61477-01	FMV	1.37078+02	VDLV	1.37078+02	VLV	1.15375+02
		PAO	9.15641+01	FAV	0.00000	VDAU	-6.58044+01	VAO	1.14455+02
		PSC	5.11933+01	FAS	6.58044+01	VDSC	-1.52675+01	VSC	3.34590+03
T	7.00000-01	PVC	2.05471+00	FVS	0.10705+01	VDVC	-5.15741+01	VVC	5.13674+02
TT	7.00000-01	PRV	3.52301-01	FTV	1.32745+02	VDKV	1.32745+02	VRV	1.00923+02
		PAP	1.95971+01	FPV	0.00000	VDAP	-7.62389+01	VAP	1.47346+02
		PVP	8.42062+00	FPS	7.82389+01	VDVP	-5.75380+01	VVP	2.55152+02
		PLV	7.79508-01	FMV	1.36078+02	VDLV	1.36078+02	VLV	1.15107+02
		PAO	9.05287+01	FAV	0.00000	VDAU	-6.51104+01	VAO	1.13156+02
		PSC	5.11883+01	FAS	6.41184+01	VDSC	-1.50521+01	VSC	3.34564+03
T	7.20000-01	PVC	2.05081+00	FVS	0.10682+01	VDVC	-5.06702+01	VVC	5.12651+02
TT	7.20000-01	PRV	3.61579-01	FTV	1.31744+02	VDKV	1.31744+02	VRV	1.09567+02
		PAP	1.93385+01	FPV	0.00000	VDAP	-7.70506+01	VAP	1.45793+02
		PVP	8.38170+00	FPS	7.70506+01	VDVP	-5.50175+01	VVP	2.53394+02
		PLV	7.77101-01	FMV	1.35078+02	VDLV	1.35078+02	VLV	1.20318+02

		PAO	8.95124+01	FAV	0.00000	VDAO	-6.24765+01	VAO	1.11890+02
		PSC	5.11824+01	FAS	6.24765+01	VDSC	-1.85917+01	VSC	3.34529+03
T	7.40000-01	PVC	2.04659+00	FVS	6.10651+01	VDVC	-4.96906+01	VVC	5.11647+02
TT	7.40000-01	PRV	3.70235-01	FTV	1.30756+02	VDRV	1.30756+02	VRV	1.12192+02
		PAP	1.01871+01	FPV	0.00000	VDAP	-7.53051+01	VAP	1.44263+02
		PVP	3.34365+00	FPS	7.59051+01	VDVP	-5.91737+01	VVP	2.52632+02
		PLV	3.15161-01	FMV	1.34079+02	VDLV	1.34079+02	VLV	1.23510+02
		PAO	8.65253+01	FAV	0.00000	VDAO	-6.06775+01	VAO	1.10657+02
		PSC	5.11766+01	FAS	6.08778+01	VDSC	-2.81873+01	VSC	3.34490+03
T	7.60000-01	PVC	2.64265+00	FVS	6.10610+01	VDVC	-4.87176+01	VVC	5.10563+02
TT	7.60000-01	PRV	3.78832-01	FTV	1.29778+02	VDRV	1.29778+02	VRV	1.14796+02
		PAP	1.89861+01	FPV	0.00000	VDAP	-7.47714+01	VAP	1.42757+02
		PVP	8.30501+00	FPS	7.47714+01	VDVP	-5.83087+01	VVP	2.51667+02
		PLV	8.32791-01	FMV	1.33080+02	VDLV	1.33080+02	VLV	1.26181+02
		PAO	8.75637+01	FAV	0.00000	VDAO	-5.93209+01	VAO	1.09455+02
		PSC	5.11705+01	FAS	5.93209+01	VDSC	-2.17401+01	VSC	3.34446+03
T	7.80000-01	PVC	2.63976+00	FVS	6.10560+01	VDVC	-4.77554+01	VVC	5.09699+02
TT	7.80000-01	PRV	3.87366-01	FTV	1.28811+02	VDRV	1.28811+02	VRV	1.17384+02
		PAP	1.87892+01	FPV	0.00000	VDAP	-7.36592+01	VAP	1.41272+02
		PVP	8.26649+00	FPS	7.36592+01	VDVP	-5.84231+01	VVP	2.50500+02
		PLV	8.50291-01	FMV	1.32082+02	VDLV	1.32082+02	VLV	1.28833+02
		PAO	8.56268+01	FAV	0.00000	VDAO	-5.78049+01	VAO	1.08283+02
		PSC	5.11636+01	FAS	5.78049+01	VDSC	-2.52511+01	VSC	3.34403+03
T	8.00000-01	PVC	2.03501+00	FVS	6.10501+01	VDVC	-4.68056+01	VVC	5.08753+02
TT	8.00000-01	PRV	3.95836-01	FTV	1.27356+02	VDRV	1.27356+02	VRV	1.19950+02
		PAP	1.85941+01	FPV	0.00000	VDAP	-7.26680+01	VAP	1.39819+02
		PVP	8.22791+00	FPS	7.25680+01	VDVP	-5.85176+01	VVP	2.49330+02
		PLV	8.67667-01	FMV	1.31086+02	VDLV	1.31086+02	VLV	1.31465+02
		PAO	8.57131+01	FAV	0.00000	VDAO	-5.85287+01	VAO	1.07142+02
		PSC	5.11563+01	FAS	5.63287+01	VDSC	-2.47215+01	VSC	3.34355+03
T	8.20000-01	PVC	2.03131+00	FVS	6.10434+01	VDVC	-4.58674+01	VVC	5.07826+02
TT	8.20000-01	PRV	4.04243-01	FTV	1.26911+02	VDRV	1.26911+02	VRV	1.22498+02
		PAP	1.84032+01	FPV	0.00000	VDAP	-7.14975+01	VAP	1.36370+02
		PVP	8.18225+00	FPS	7.14973+01	VDVP	-5.85930+01	VVP	2.48159+02
		PLV	8.84905-01	FMV	1.30090+02	VDLV	1.30090+02	VLV	1.34077+02
		PAO	8.48241+01	FAV	0.00000	VDAO	-5.43911+01	VAO	1.06030+02
		PSC	5.11485+01	FAS	5.48911+01	VDSC	-2.61525+01	VSC	3.34304+03
T	8.40000-01	PVC	2.02767+00	FVS	6.10358+01	VDVC	-4.49406+01	VVC	5.06916+02
TT	8.40000-01	PRV	4.12581-01	FTV	1.25977+02	VDRV	1.25977+02	VRV	1.25027+02
		PAP	1.82144+01	FPV	0.00000	VDAP	-7.04467+01	VAP	1.36950+02
		PVP	8.15051+00	FPS	7.04457+01	VDVP	-5.85499+01	VVP	2.46987+02
		PLV	9.02011-01	FMV	1.29097+02	VDLV	1.29097+02	VLV	1.30666+02
		PAO	8.39571+01	FAV	0.00000	VDAO	-5.34915+01	VAO	1.04946+02

		PSC	5.11403+01	FAS	5.34913+01	VDSC	-2.75445+01	VSC	3.34250+03
T	8.60000-01	PVC	2.02411+00	FVS	5.10274+01	VDVC	-4.40254+01	VVC	5.06029+02
TT	8.60000-01	PRV	4.20475-01	FTV	1.25053+02	VDRV	1.25053+02	VRV	1.27537+02
		PAP	1.89125+01	FPV	0.00000	VDAP	-0.94157+01	VAP	1.35552+02
		PVP	0.11185+00	FPS	6.94157+01	VDVP	-5.00889+01	VVP	2.45813+02
		PLV	9.18917-01	FMV	1.28105+02	VDLV	1.28105+02	VLV	1.39240+02
		PAO	3.51121+01	FAV	0.00000	VDAO	-5.21202+01	VAO	1.03690+02
		PSC	5.11317+01	FAS	5.21252+01	VDSC	-2.00993+01	VSC	3.34194+03
T	3.80000-01	PVC	2.02063+00	FVS	5.10183+01	VDVC	-4.31213+01	VVC	5.05157+02
TT	3.80000-01	PRV	4.20094-01	FTV	1.24140+02	VDRV	1.24140+02	VRV	1.30029+02
		PAP	1.78451+01	FPV	0.00000	VDAP	-0.61030+01	VAP	1.34173+02
		PVP	0.07300+00	FPS	6.84033+01	VDVP	-5.67100+01	VVP	2.44639+02
		PLV	9.35331-01	FMV	1.27115+02	VDLV	1.27115+02	VLV	1.41793+02
		PAO	0.22887+01	FAV	0.00000	VDAO	-5.05000+01	VAO	1.02861+02
		PSC	5.11221+01	FAS	5.08002+01	VDSC	-3.02175+01	VSC	3.34135+03
T	9.00000-01	PVC	2.01721+00	FVS	5.10083+01	VDVC	-4.22282+01	VVC	5.04304+02
TT	9.00000-01	PRV	4.37254-01	FTV	1.23237+02	VDRV	1.23237+02	VRV	1.32503+02
		PAP	1.70644+01	FPV	0.00000	VDAP	-0.74107+01	VAP	1.32815+02
		PVP	0.03431+00	FPS	6.74107+01	VDVP	-5.37101+01	VVP	2.43465+02
		PLV	9.52543-01	FMV	1.26127+02	VDLV	1.26127+02	VLV	1.44325+02
		PAO	0.14867+01	FAV	0.00000	VDAO	-4.95082+01	VAO	1.01856+02
		PSC	5.11135+01	FAS	4.95082+01	VDSC	-3.15001+01	VSC	3.34073+03
T	9.20000-01	PVC	2.01387+00	FVS	5.09975+01	VDVC	-4.13461+01	VVC	5.03468+02
TT	9.20000-01	PRV	4.45363-01	FTV	1.22344+02	VDRV	1.22344+02	VRV	1.34958+02
		PAP	1.74861+01	FPV	0.00000	VDAP	-0.54350+01	VAP	1.31477+02
		PVP	7.99551+00	FPS	6.64358+01	VDVP	-5.27054+01	VVP	2.42291+02
		PLV	9.89120-01	FMV	1.25141+02	VDLV	1.25141+02	VLV	1.40838+02
		PAO	0.07003+01	FAV	0.00000	VDAO	-4.62490+01	VAO	1.00880+02
		PSC	5.11032+01	FAS	4.82496+01	VDSC	-3.27400+01	VSC	3.34009+03
T	9.40000-01	PVC	2.01051+00	FVS	5.09862+01	VDVC	-4.04747+01	VVC	5.02650+02
TT	9.40000-01	PRV	4.53401-01	FTV	1.21461+02	VDRV	1.21461+02	VRV	1.37390+02
		PAP	1.73110+01	FPV	0.00000	VDAP	-0.54705+01	VAP	1.30153+02
		PVP	7.95605+00	FPS	6.54789+01	VDVP	-5.05794+01	VVP	2.41117+02
		PLV	9.85581-01	FMV	1.24153+02	VDLV	1.24153+02	VLV	1.49331+02
		PAO	7.99822+01	FAV	0.00000	VDAO	-4.70239+01	VAO	9.99277+01
		PSC	5.10931+01	FAS	4.70239+01	VDSC	-3.53025+01	VSC	3.33942+03
T	9.60000-01	PVC	2.00741+00	FVS	5.09740+01	VDVC	-3.96139+01	VVC	5.01349+02
TT	9.60000-01	PRV	4.61391-01	FTV	1.20583+02	VDRV	1.20583+02	VRV	1.39817+02
		PAP	1.71381+01	FPV	0.00000	VDAP	-0.45395+01	VAP	1.28050+02
		PVP	7.91811+00	FPS	6.45395+01	VDVP	-5.00000+01	VVP	2.39944+02
		PLV	1.00191+00	FMV	1.23170+02	VDLV	1.23170+02	VLV	1.51804+02
		PAO	7.91991+01	FAV	0.00000	VDAO	-4.58304+01	VAO	9.99992+01
		PSC	5.10821+01	FAS	4.58304+01	VDSC	-3.51131+01	VSC	3.33873+03

T	9.80000-01	PVC	2.60425+00	FVS	8.09512+01	VDVC	-3.87637+01	VVC	5.01065+02
TT	9.80000-01	PRV	4.69325-01	FTV	1.19725+02	VDRV	1.19725+02	VRV	1.42220+02
		PAP	1.69678+01	FPV	0.00000	VDAP	-6.36171+01	VAP	1.27576+02
		PVP	7.87945+00	FPS	6.36171+01	VDVP	-5.85835+01	VVP	2.38771+02
		PLV	1.01817+00	FMV	1.22201+02	VDLV	1.22201+02	VLV	1.54258+02
		PAO	7.84756+01	FAV	0.00000	VDAO	-4.46582+01	VAO	9.80943+01
		PSC	5.10716+01	FAS	4.46682+01	VOSC	-3.82234+01	VSC	3.33801+03
T	1.00000+00	PVC	2.60116+00	FVS	8.09476+01	VDVC	-3.79239+01	VVC	5.00298+02
TT	0.00000	PRV	4.77206-01	FTV	1.18871+02	VDRV	1.18871+02	VRV	1.44606+02
		PAP	1.67996+01	FPV	0.00000	VDAP	-6.27116+01	VAP	1.26313+02
		PVP	7.84081+00	FPS	6.27116+01	VDVP	-5.35147+01	VVP	2.37600+02
		PLV	1.03417+00	FMV	1.21226+02	VDLV	1.21226+02	VLV	1.56892+02
		PAO	7.77696+01	FAV	0.00000	VDAO	-4.35364+01	VAO	9.72123+01
		PSC	5.10604+01	FAS	4.35364+01	VOSC	-3.74112+01	VSC	3.33728+03
T	1.02000+00	PVC	2.60550+00	FVS	8.09213+01	VDVC	8.09213+01	VVC	5.01384+02
TT	2.00000-02	PRV	3.86795+00	FTV	0.00000	VDRV	0.00000	VRV	1.45139+02
		PAP	1.66342+01	FPV	0.00000	VDAP	-6.13118+01	VAP	1.25072+02
		PVP	7.87577+00	FPS	6.13118+01	VDVP	6.13118+01	VVP	2.38860+02
		PLV	4.75796+01	FMV	0.00000	VDLV	0.00000	VLV	1.56873+02
		PAO	7.70821+01	FAV	0.00000	VDAO	-4.24344+01	VAO	9.63526+01
		PSC	5.10487+01	FAS	4.24344+01	VOSC	-3.84869+01	VSC	3.33652+03
T	1.04000+00	PVC	2.61201+00	FVS	8.08913+01	VDVC	8.08913+01	VVC	5.03002+02
TT	4.00000-02	PRV	7.25695+00	FTV	0.00000	VDRV	0.00000	VRV	1.45139+02
		PAP	1.64730+01	FPV	0.00000	VDAP	-5.99034+01	VAP	1.23860+02
		PVP	7.91578+00	FPS	5.99034+01	VDVP	5.99034+01	VVP	2.39872+02
		PLV	9.16554+01	FMV	0.00000	VDLV	-9.57113+02	VLV	1.52759+02
		PAO	7.96915+01	FAV	9.57113+02	VDAO	9.10406+02	VAO	9.96144+01
		PSC	5.10376+01	FAS	4.67068+01	VOSC	-3.41845+01	VSC	3.33575+03
T	1.06000+00	PVC	2.61848+00	FVS	8.08696+01	VDVC	8.08696+01	VVC	5.04620+02
TT	6.00000-02	PRV	1.08850+01	FTV	0.00000	VDRV	0.00000	VRV	1.45139+02
		PAP	1.63159+01	FPV	0.00000	VDAP	-5.85273+01	VAP	1.22676+02
		PVP	7.95486+00	FPS	5.85273+01	VDVP	5.85273+01	VVP	2.41056+02
		PLV	1.06352+02	FMV	0.00000	VDLV	-9.39874+02	VLV	1.32939+02
		PAO	9.46031+01	FAV	9.39874+02	VDAO	8.66350+02	VAO	1.18254+02
		PSC	5.10303+01	FAS	7.10237+01	VOSC	-9.84591+00	VSC	3.33532+03
T	1.08000+00	PVC	2.62495+00	FVS	8.08592+01	VDVC	8.08592+01	VVC	5.06237+02
TT	8.00000-02	PRV	1.45139+01	FTV	0.00000	VDRV	0.00000	VRV	1.45139+02
		PAP	1.61620+01	FPV	0.00000	VDAP	-5.71828+01	VAP	1.21519+02
		PVP	7.99304+00	FPS	5.71828+01	VDVP	5.71828+01	VVP	2.42213+02
		PLV	1.16103+02	FMV	0.00000	VDLV	-7.46599+02	VLV	1.16103+02
		PAO	1.06771+02	FAV	7.46699+02	VDAO	6.55644+02	VAO	1.33462+02
		PSC	5.10305+01	FAS	9.08546+01	VOSC	9.99545+00	VSC	3.33533+03

T	1.10000+00	PVC	2.03142+00	FVS	5.08567+01	VLVC	8.08567+01	VVC	5.07854+02
TT	1.00000-01	PRV	1.80165+01	FTV	0.00000	VDRV	-1.68792+02	VRV	1.44148+02
		PAP	1.61431+01	FPV	1.68792+02	VDAP	1.12004+02	VAP	1.21376+02
		PVP	8.03048+00	FPS	5.67873+01	VDVP	5.67873+01	VVP	2.43347+02
		PLV	1.18821+02	FMV	0.00000	VDLV	-4.17438+02	VLV	1.05619+02
		PAO	1.13503+02	FAV	4.17438+02	VD AO	3.15453+02	VAO	1.42004+02
		PSC	5.10358+01	FAS	1.01986+02	VDSC	2.11291+01	VSC	3.33565+03
T	1.12000+00	PVC	2.03788+00	FVS	5.08568+01	VLVC	8.08568+01	VVC	5.09471+02
TT	1.20000-01	PRV	2.07903+01	FTV	0.00000	VDRV	-3.55852+02	VRV	1.38602+02
		PAP	1.67253+01	FPV	3.65852+02	VDAP	3.35258+02	VAP	1.25754+02
		PVP	8.08908+00	FPS	6.05939+01	VDVP	6.05939+01	VVP	2.44515+02
		PLV	1.22467+02	FMV	0.00000	VDLV	-3.55143+02	VLV	9.79737+01
		PAO	1.18028+02	FAV	3.55143+02	VD AO	2.45950+02	VAO	1.47535+02
		PSC	5.10431+01	FAS	1.09185+02	VDSC	2.93267+01	VSC	3.33615+03
T	1.14000+00	PVC	2.04435+00	FVS	5.08633+01	VLVC	8.08633+01	VVC	5.11068+02
TT	1.40000-01	PRV	2.22197+01	FTV	0.00000	VDRV	-4.15151+02	VRV	1.30704+02
		PAP	1.75760+01	FPV	4.15151+02	VDAP	3.46679+02	VAP	1.32363+02
		PVP	8.11088+00	FPS	6.64720+01	VDVP	6.64720+01	VVP	2.45785+02
		PLV	1.23033+02	FMV	0.00000	VDLV	-2.15278+02	VLV	9.28548+01
		PAO	1.20342+02	FAV	2.15278+02	VD AO	1.02334+02	VAO	1.50427+02
		PSC	5.10524+01	FAS	1.12941+02	VDSC	3.25782+01	VSC	3.33676+03
T	1.16000+00	PVC	2.05082+00	FVS	5.08694+01	VLVC	8.08694+01	VVC	5.12706+02
TT	1.60000-01	PRV	2.32326+01	FTV	0.00000	VDRV	-4.22106+02	VRV	1.22277+02
		PAP	1.85426+01	FPV	4.22108+02	VDAP	3.49406+02	VAP	1.59418+02
		PVP	8.15682+00	FPS	7.27002+01	VDVP	7.27002+01	VVP	2.47176+02
		PLV	1.24258+02	FMV	0.00000	VDLV	-1.97106+02	VLV	8.87557+01
		PAO	1.21794+02	FAV	1.97100+02	VD AO	5.18074+01	VAO	1.52243+02
		PSC	5.10626+01	FAS	1.15293+02	VDSC	3.46235+01	VSC	3.33742+03
T	1.18000+00	PVC	2.05729+00	FVS	5.08764+01	VLVC	8.08764+01	VVC	5.14323+02
TT	1.80000-01	PRV	2.44137+01	FTV	0.00000	VDRV	-4.42129+02	VRV	1.13552+02
		PAP	1.95011+01	FPV	4.42129+02	VDAP	3.63009+02	VAP	1.46625+02
		PVP	8.20689+00	FPS	7.90600+01	VDVP	7.90600+01	VVP	2.48694+02
		PLV	1.24178+02	FMV	0.00000	VDLV	-1.39752+02	VLV	8.56405+01
		PAO	1.22433+02	FAV	1.39752+02	VD AO	2.34573+01	VAO	1.53040+02
		PSC	5.10733+01	FAS	1.16314+02	VDSC	3.54386+01	VSC	3.33812+03
T	1.20000+00	PVC	2.06374+00	FVS	5.08838+01	VLVC	8.08838+01	VVC	5.15941+02
TT	2.00000-01	PRV	2.51618+01	FTV	0.00000	VDRV	-4.24803+02	VRV	1.04639+02
		PAP	2.04411+01	FPV	4.24803+02	VDAP	3.59541+02	VAP	1.53694+02
		PVP	8.26118+00	FPS	8.52615+01	VDVP	8.52615+01	VVP	2.50338+02
		PLV	1.24392+02	FMV	0.00000	VDLV	-1.32375+02	VLV	8.29277+01
		PAO	1.22737+02	FAV	1.32375+02	VD AO	1.55816+01	VAO	1.53421+02
		PSC	5.10862+01	FAS	1.16794+02	VDSC	3.59102+01	VSC	3.33884+03
T	1.22000+00	PVC	2.07023+00	FVS	5.08913+01	VLVC	8.08913+01	VVC	5.17559+02

TT	2.20000-01	PRV	2.60070+01	FTV	0.00000	VDRV	-4.20078+02	VRV	9.63221+01
		PAP	2.13395+01	FPV	4.20078+02	VDAP	3.28937+02	VAP	1.60447+02
		PVP	8.31937+00	FPS	9.11406+01	VDVP	9.11406+01	VVP	2.52102+02
		PLV	1.24523+02	FMV	0.00000	VDLV	-1.26785+02	VLV	8.63373+01
		PAO	1.22938+02	FAV	1.26785+02	VDAO	9.08125+00	VAO	1.53672+02
		PSC	5.10953+01	FAS	1.17104+02	VDSC	3.02125+01	VSC	3.33956+03
T	1.24000+00	PVC	2.07671+00	FVS	8.06990+01	VDVC	8.06990+01	VVC	5.19176+02
TT	2.40000-01	PRV	2.64668+01	FTV	0.00000	VDRV	-3.66986+02	VRV	8.62226+01
		PAP	2.21670+01	FPV	3.86986+02	VDAP	2.90487+02	VAP	1.60669+02
		PVP	8.38133+00	FPS	9.64994+01	VDVP	9.64994+01	VVP	2.53980+02
		PLV	1.24568+02	FMV	0.00000	VDLV	-1.21535+02	VLV	7.78549+01
		PAO	1.23049+02	FAV	1.21535+02	VDAO	4.26364+00	VAO	1.53811+02
		PSC	5.11064+01	FAS	1.17266+02	VDSC	3.03670+01	VSC	3.34029+03
T	1.26000+00	PVC	2.08318+00	FVS	8.09063+01	VDVC	8.09063+01	VVC	5.20795+02
TT	2.60000-01	PRV	2.66992+01	FTV	0.00000	VDRV	-3.43996+02	VRV	8.09068+01
		PAP	2.29771+01	FPV	3.43996+02	VDAP	2.42983+02	VAP	1.72008+02
		PVP	8.44655+00	FPS	1.01014+02	VDVP	1.01014+02	VVP	2.55956+02
		PLV	1.22644+02	FMV	0.00000	VDLV	-4.05765+01	VLV	7.66555+01
		PAO	1.22142+02	FAV	4.05763+01	VDAO	-7.51933+01	VAO	1.52677+02
		PSC	5.11173+01	FAS	1.15770+02	VDSC	3.48633+01	VSC	3.34100+03
T	1.28000+00	PVC	2.08965+00	FVS	8.09127+01	VDVC	8.09127+01	VVC	5.22413+02
TT	2.80000-01	PRV	2.68060+01	FTV	0.00000	VDRV	-3.01081+02	VRV	7.44611+01
		PAP	2.34607+01	FPV	3.01081+02	VDAP	1.90450+02	VAP	1.76396+02
		PVP	8.51447+00	FPS	1.04623+02	VDVP	1.04623+02	VVP	2.58014+02
		PLV	1.21404+02	FMV	0.00000	VDLV	-3.81378+01	VLV	7.53777+01
		PAO	1.20928+02	FAV	3.81378+01	VDAO	-7.56360+01	VAO	1.51159+02
		PSC	5.11277+01	FAS	1.13774+02	VDSC	3.25611+01	VSC	3.34168+03
T	1.30000+00	PVC	2.09612+00	FVS	8.09179+01	VDVC	8.09179+01	VVC	5.24031+02
TT	3.00000-01	PRV	2.63381+01	FTV	0.00000	VDRV	-2.22680+02	VRV	6.93108+01
		PAP	2.35639+01	FPV	2.22680+02	VDAP	1.15723+02	VAP	1.79428+02
		PVP	8.58437+00	FPS	1.06957+02	VDVP	1.06957+02	VVP	2.60132+02
		PLV	1.17514+02	FMV	0.00000	VDLV	0.00000	VLV	7.58152+01
		PAO	1.19180+02	FAV	0.00000	VDAO	-1.10909+02	VAO	1.48975+02
		PSC	5.11373+01	FAS	1.10909+02	VDSC	2.99911+01	VSC	3.34231+03
T	1.32000+00	PVC	2.10260+00	FVS	8.09217+01	VDVC	8.09217+01	VVC	5.25649+02
TT	3.20000-01	PRV	2.61247+01	FTV	0.00000	VDRV	-1.81366+02	VRV	6.53117+01
		PAP	2.41095+01	FPV	1.81366+02	VDAP	7.31879+01	VAP	1.81274+02
		PVP	8.65541+00	FPS	1.08178+02	VDVP	1.08178+02	VVP	2.62285+02
		PLV	1.13723+02	FMV	0.00000	VDLV	0.00000	VLV	7.58152+01
		PAO	1.17428+02	FAV	0.00000	VDAO	-1.08040+02	VAO	1.46785+02
		PSC	5.11460+01	FAS	1.08040+02	VDSC	2.71182+01	VSC	3.34288+03
T	1.34000+00	PVC	2.10967+00	FVS	8.09240+01	VDVC	8.09240+01	VVC	5.27268+02
TT	3.40000-01	PRV	2.25512+01	FTV	0.00000	VDRV	0.00000	VRV	6.44324+01

	PAP	2.39402+01	FPV	0.00000	VDAP	-1.06496+02	VAP	1.80001+02	
	PVP	8.72643+00	FPS	1.06496+02	VDVP	1.06496+02	VVP	2.64437+02	
	PLV	9.47688+01	FMV	0.00000	VDLV	0.00000	VLV	7.58152+01	
	PAO	1.15722+02	FAV	0.00000	VDAP	-1.05246+02	VAO	1.44652+02	
	PSC	5.11530+01	FAS	1.05246+02	VDSC	2.43220+01	VSC	3.34339+03	
T	1.36000+00	PVC	2.11555+00	FVS	8.09249+01	VDVC	8.09249+01	VVC	5.28880+02
TT	3.60000-01	PRV	1.93297+01	FTV	0.00000	VDRV	0.00000	VRV	6.44324+01
		PAP	2.36602+01	FPV	0.00000	VDAP	-1.04050+02	VAP	1.77896+02
		PVP	8.79591+00	FPS	1.04050+02	VDVP	1.04050+02	VVP	2.66543+02
		PLV	7.58152+01	FMV	0.00000	VDLV	0.00000	VLV	7.58152+01
		PAO	1.14066+02	FAV	0.00000	VDAP	-1.02525+02	VAO	1.42575+02
		PSC	5.11600+01	FAS	1.02525+02	VDSC	2.16005+01	VSC	3.34385+03
T	1.38000+00	PVC	2.12202+00	FVS	8.09244+01	VDVC	8.09244+01	VVC	5.30503+02
TT	3.80000-01	PRV	9.77112+00	FTV	0.00000	VDRV	0.00000	VRV	6.44324+01
		PAP	2.33861+01	FPV	0.00000	VDAP	-1.01660+02	VAP	1.75339+02
		PVP	8.86371+00	FPS	1.01660+02	VDVP	1.01660+02	VVP	2.68600+02
		PLV	3.61572+01	FMV	0.00000	VDLV	0.00000	VLV	7.58152+01
		PAO	1.12441+02	FAV	0.00000	VDAP	-9.98701+01	VAO	1.40551+02
		PSC	5.11671+01	FAS	9.98761+01	VDSC	1.89516+01	VSC	3.34426+03
T	1.40000+00	PVC	2.12720+00	FVS	8.09246+01	VDVC	-8.33423+01	VVC	5.31824+02
TT	4.00000-01	PRV	2.13616+01	FTV	1.49267+02	VDRV	1.49267+02	VRV	6.47320+01
		PAP	2.31193+01	FPV	0.00000	VDAP	-9.94014+01	VAP	1.73529+02
		PVP	3.91909+00	FPS	9.94014+01	VDVP	-5.04960+01	VVP	2.70275+02
		PLV	5.92584+01	FMV	1.49898+02	VDLV	1.49898+02	VLV	7.61491+01
		PAO	1.10864+02	FAV	0.00000	VDAP	-9.72963+01	VAO	1.38579+02
		PSC	5.11725+01	FAS	9.72963+01	VDSC	1.03710+01	VSC	3.34461+03
T	1.42000+00	PVC	2.12181+00	FVS	8.09412+01	VDVC	-6.71377+01	VVC	5.30469+02
TT	4.20000-01	PRV	2.23428+01	FTV	1.48079+02	VDRV	1.48079+02	VRV	6.77055+01
		PAP	2.28572+01	FPV	0.00000	VDAP	-9.78003+01	VAP	1.71857+02
		PVP	8.68555+00	FPS	9.78003+01	VDVP	-5.11489+01	VVP	2.69259+02
		PLV	5.22301+01	FMV	1.48949+02	VDLV	1.48949+02	VLV	7.91376+01
		PAO	1.09327+02	FAV	0.00000	VDAP	-9.47842+01	VAO	1.36659+02
		PSC	5.11772+01	FAS	9.47942+01	VDSC	1.33430+01	VSC	3.34491+03
T	1.44000+00	PVC	2.11655+00	FVS	8.09564+01	VDVC	-6.59480+01	VVC	5.29136+02
TT	4.40000-01	PRV	2.33162+01	FTV	1.46904+02	VDRV	1.46904+02	VRV	7.06553+01
		PAP	2.25928+01	FPV	0.00000	VDAP	-9.62317+01	VAP	1.69917+02
		PVP	8.25158+00	FPS	9.62317+01	VDVP	-5.17637+01	VVP	2.68230+02
		PLV	5.41961+01	FMV	1.47995+02	VDLV	1.47995+02	VLV	8.21070+01
		PAO	1.07831+02	FAV	0.00000	VDAP	-9.23380+01	VAO	1.34780+02
		PSC	5.11811+01	FAS	9.23380+01	VDSC	1.13815+01	VSC	3.34516+03
T	1.46000+00	PVC	2.11132+00	FVS	8.09701+01	VDVC	-6.47732+01	VVC	5.27831+02
TT	4.60000-01	PRV	2.42820+01	FTV	1.45743+02	VDRV	1.45743+02	VRV	7.35817+01
		PAP	2.23451+01	FPV	0.00000	VDAP	-9.45347+01	VAP	1.68008+02

		PVP	8.81723+00	FPS	9.46947+01	VDVP	-5.23419+01	VVP	2.67189+02
		PLV	5.61378-01	FMV	1.47037+02	VLLV	1.47037+02	VLV	8.50573+01
		PAO	1.06372+02	FAV	0.00000	VDAP	-8.99559+01	VAO	1.32965+02
		PSC	5.11841+01	FAS	8.99559+01	VDSC	8.98580+00	VSC	3.34537+03
T	1.48000+00	PVC	2.10618+00	FVS	8.09325+01	VDVC	-6.38129+01	VVC	5.26547+02
TT	4.60000-01	PRV	2.52401-01	FTV	1.44595+02	VDRV	1.44595+02	VRV	7.64851+01
		PAP	2.20752+01	FPV	0.00000	VDAP	-9.31886+01	VAP	1.68129+02
		PVP	8.78250+00	FPS	9.31886+01	VDVP	-5.23850+01	VVP	2.66136+02
		PLV	5.80728-01	FMV	1.46074+02	VLLV	1.46074+02	VLV	8.79885+01
		PAO	1.04951+02	FAV	0.00000	VDAP	-8.76304+01	VAO	1.31189+02
		PSC	5.11465+01	FAS	8.76364+01	VDSC	6.65382+00	VSC	3.34552+03
T	1.50000+00	PVC	2.10114+00	FVS	8.09936+01	VDVC	-6.24869+01	VVC	5.25286+02
TT	5.00000-01	PRV	2.61907-01	FTV	1.43461+02	VDRV	1.43461+02	VRV	7.93856+01
		PAP	2.18493+01	FPV	0.00000	VDAP	-9.17120+01	VAP	1.64280+02
		PVP	8.74743+00	FPS	9.17128+01	VDVP	-5.33939+01	VVP	2.65074+02
		PLV	5.99942-01	FMV	1.45107+02	VLLV	1.45107+02	VLV	9.09003+01
		PAO	1.03567+02	FAV	0.00000	VDAP	-8.53770+01	VAO	1.29459+02
		PSC	5.11882+01	FAS	8.53775+01	VDSC	4.33400+00	VSC	3.34563+03
T	1.52000+00	PVC	2.09610+00	FVS	8.10035+01	VDVC	-6.13352+01	VVC	5.24048+02
TT	5.20000-01	PRV	2.71338-01	FTV	1.42339+02	VDRV	1.42339+02	VRV	3.22236+01
		PAP	2.13072+01	FPV	0.00000	VDAP	-9.02064+01	VAP	1.62460+02
		PVP	8.71203+00	FPS	8.02664+01	VDVP	-5.33899+01	VVP	2.64001+02
		PLV	6.19032-01	FMV	1.44136+02	VLLV	1.44136+02	VLV	9.57927+01
		PAO	1.02210+02	FAV	0.00000	VDAP	-8.31782+01	VAO	1.27773+02
		PSC	5.11892+01	FAS	8.31782+01	VDSC	2.17470+00	VSC	3.34570+03
T	1.54000+00	PVC	2.09133+00	FVS	8.10120+01	VDVC	-6.02175+01	VVC	5.22833+02
TT	5.40000-01	PRV	2.50696-01	FTV	1.41230+02	VDRV	1.41230+02	VRV	8.50593+01
		PAP	2.13690+01	FPV	0.00000	VDAP	-8.88488+01	VAP	1.60869+02
		PVP	8.67632+00	FPS	8.88483+01	VDVP	-5.43139+01	VVP	2.62919+02
		PLV	6.37998-01	FMV	1.43163+02	VLLV	1.43163+02	VLV	9.88657+01
		PAO	1.00908+02	FAV	0.00000	VDAP	-8.10304+01	VAO	1.26131+02
		PSC	5.11895+01	FAS	8.10364+01	VDSC	2.43530-02	VSC	3.34572+03
T	1.56000+00	PVC	2.08658+00	FVS	8.10194+01	VDVC	-5.91130+01	VVC	5.21639+02
TT	5.60000-01	PRV	2.39980-01	FTV	1.40133+02	VDRV	1.40133+02	VRV	8.78729+01
		PAP	2.11345+01	FPV	0.00000	VDAP	-8.74593+01	VAP	1.58900+02
		PVP	8.64030+00	FPS	8.74593+01	VDVP	-5.47271+01	VVP	2.61828+02
		PLV	6.56827-01	FMV	1.42186+02	VLLV	1.42186+02	VLV	9.95192+01
		PAO	9.46253+01	FAV	0.00000	VDAP	-7.09508+01	VAO	1.24532+02
		PSC	5.11892+01	FAS	7.89508+01	VDSC	-2.06360+00	VSC	3.34570+03
T	1.58000+00	PVC	2.08187+00	FVS	8.10256+01	VDVC	-5.80234+01	VVC	5.20466+02
TT	5.80000-01	PRV	2.39193-01	FTV	1.39049+02	VDRV	1.39049+02	VRV	9.00847+01
		PAP	2.09037+01	FPV	0.00000	VDAP	-8.50973+01	VAP	1.57171+02
		PVP	8.60000+00	FPS	8.60973+01	VDVP	-5.51104+01	VVP	2.60730+02

		PLV	6.75531-01	FMV	1.41208+02	VDLV	1.41208+02	VLV	1.02353+02
		PAO	9.83788+01	FAV	0.00000	VDAP	-7.69199+01	VAO	1.22973+02
		PSC	5.11883+01	FAS	7.69199+01	VDSC	-4.10567+00	VSC	3.34564+03
T	1.60000+00	PVC	2.07727+00	FVS	8.10306+01	VDVC	-5.09460+01	VVC	5.19318+02
TT	6.00000-01	PRV	3.08335-01	FTV	1.37977+02	VDRV	1.37977+02	VRV	9.34349+01
		PAP	2.06751+01	FPV	0.00000	VDAP	-0.47020+01	VAP	1.55462+02
		PVP	8.56761+00	FPS	8.47620+01	VDVP	-5.54549+01	VVP	2.59624+02
		PLV	6.94135-01	FMV	1.40227+02	VDLV	1.40227+02	VLV	1.05167+02
		PAO	9.71635+01	FAV	0.00000	VDAP	-7.49423+01	VAO	1.21454+02
		PSC	5.11867+01	FAS	7.49423+01	VDSC	-0.02331+00	VSC	3.34554+03
T	1.62000+00	PVC	2.07276+00	FVS	8.10345+01	VDVC	-5.53831+01	VVC	5.18190+02
TT	6.20000-01	PRV	3.17407-01	FTV	1.36918+02	VDRV	1.36918+02	VRV	9.61838+01
		PAP	2.04527+01	FPV	0.00000	VDAP	-8.34530+01	VAP	1.53780+02
		PVP	8.53084+00	FPS	8.34530+01	VDVP	-5.57915+01	VVP	2.58512+02
		PLV	7.12550-01	FMV	1.39245+02	VDLV	1.39245+02	VLV	1.07962+02
		PAO	9.59800+01	FAV	0.00000	VDAP	-7.30165+01	VAO	1.19975+02
		PSC	5.11846+01	FAS	7.30165+01	VDSC	-0.01794+00	VSC	3.34540+03
T	1.64000+00	PVC	2.06833+00	FVS	8.10372+01	VDVC	-5.43320+01	VVC	5.17083+02
TT	6.40000-01	PRV	3.26400-01	FTV	1.35870+02	VDRV	1.35870+02	VRV	9.89117+01
		PAP	2.02325+01	FPV	0.00000	VDAP	-8.21590+01	VAP	1.52124+02
		PVP	8.49396+00	FPS	8.21696+01	VDVP	-5.50912+01	VVP	2.57393+02
		PLV	7.30966-01	FMV	1.38261+02	VDLV	1.38261+02	VLV	1.10737+02
		PAO	9.48268+01	FAV	0.00000	VDAP	-7.11413+01	VAO	1.18533+02
		PSC	5.11818+01	FAS	7.11413+01	VDSC	-9.89590+00	VSC	3.34522+03
T	1.66000+00	PVC	2.06389+00	FVS	8.10390+01	VDVC	-5.37954+01	VVC	5.15997+02
TT	6.60000-01	PRV	3.35342-01	FTV	1.34834+02	VDRV	1.34834+02	VRV	1.01619+02
		PAP	2.00156+01	FPV	0.00000	VDAP	-0.00111+01	VAP	1.50493+02
		PVP	8.45685+00	FPS	8.09111+01	VDVP	-5.63040+01	VVP	2.56260+02
		PLV	7.49051-01	FMV	1.37276+02	VDLV	1.37276+02	VLV	1.13493+02
		PAO	9.37032+01	FAV	0.00000	VDAP	-0.93152+01	VAO	1.17129+02
		PSC	5.11785+01	FAS	6.93152+01	VDSC	-1.17237+01	VSC	3.34500+03
T	1.68000+00	PVC	2.05972+00	FVS	8.10396+01	VDVC	-5.27707+01	VVC	5.14931+02
TT	6.80000-01	PRV	3.44207-01	FTV	1.33810+02	VDRV	1.33810+02	VRV	1.04305+02
		PAP	1.99020+01	FPV	0.00000	VDAP	-7.90771+01	VAP	1.48887+02
		PVP	8.41957+00	FPS	7.96771+01	VDVP	-5.60132+01	VVP	2.55136+02
		PLV	7.67107-01	FMV	1.36290+02	VDLV	1.36290+02	VLV	1.16226+02
		PAO	9.26080+01	FAV	0.00000	VDAP	-0.75371+01	VAO	1.15701+02
		PSC	5.11746+01	FAS	6.75371+01	VDSC	-1.35025+01	VSC	3.34475+03
T	1.70000+00	PVC	2.05554+00	FVS	8.10393+01	VDVC	-5.17587+01	VVC	5.13880+02
TT	7.00000-01	PRV	3.53005-01	FTV	1.32798+02	VDRV	1.32798+02	VRV	1.06971+02
		PAP	1.95017+01	FPV	0.00000	VDAP	-7.80869+01	VAP	1.47300+02
		PVP	8.38217+00	FPS	7.84669+01	VDVP	-5.05574+01	VVP	2.54004+02
		PLV	7.85032-01	FMV	1.35304+02	VDLV	1.35304+02	VLV	1.18944+02

		PAO	9.15412+01	FAV	0.00000	VDAO	-6.58056+01	VAO	1.14427+02
		PSC	5.11702+01	FAS	6.58056+01	VOSC	-1.52337+01	VSC	3.34446+03
T	1.72000+00	PVC	2.05140+00	FVS	8.10379+01	VDVC	-5.07592+01	VVC	5.12861+02
TT	7.20000-01	PRV	3.61737-01	FTV	1.31797+02	VDRV	1.31797+02	VRV	1.09617+02
		PAP	1.93045+01	FPV	0.00000	VDAP	-7.72600+01	VAP	1.45748+02
		PVP	8.34455+00	FPS	7.72800+01	VDVP	-5.70381+01	VVP	2.52865+02
		PLV	8.02827-01	FMV	1.34318+02	VDLV	1.34318+02	VLV	1.21640+02
		PAO	9.05022+01	FAV	0.00000	VDAO	-6.41194+01	VAO	1.13128+02
		PSC	5.11653+01	FAS	6.41194+01	VOSC	-1.09185+01	VSC	3.34414+03
T	1.74000+00	PVC	2.04742+00	FVS	8.10356+01	VDVC	-4.97719+01	VVC	5.11855+02
TT	7.40000-01	PRV	3.70402-01	FTV	1.30807+02	VDRV	1.30807+02	VRV	1.12243+02
		PAP	1.91805+01	FPV	0.00000	VDAP	-7.61156+01	VAP	1.44215+02
		PVP	8.30684+00	FPS	7.61158+01	VDVP	-5.72161+01	VVP	2.51722+02
		PLV	8.20492-01	FMV	1.33332+02	VDLV	1.33332+02	VLV	1.24317+02
		PAO	8.94897+01	FAV	0.00000	VDAO	-6.24776+01	VAO	1.11862+02
		PSC	5.11594+01	FAS	6.24776+01	VOSC	-1.85580+01	VSC	3.34378+03
T	1.76000+00	PVC	2.04342+00	FVS	8.10323+01	VDVC	-4.87960+01	VVC	5.10870+02
TT	7.60000-01	PRV	3.79003-01	FTV	1.29829+02	VDRV	1.29829+02	VRV	1.14850+02
		PAP	1.89798+01	FPV	0.00000	VDAP	-7.49739+01	VAP	1.42704+02
		PVP	8.26903+00	FPS	7.49739+01	VDVP	-5.73722+01	VVP	2.50577+02
		PLV	8.38026-01	FMV	1.32346+02	VDLV	1.32346+02	VLV	1.26974+02
		PAO	8.85029+01	FAV	0.00000	VDAO	-6.08788+01	VAO	1.10629+02
		PSC	5.11540+01	FAS	6.08788+01	VOSC	-2.01536+01	VSC	3.34340+03
T	1.78000+00	PVC	2.03961+00	FVS	8.10281+01	VDVC	-4.78336+01	VVC	5.09903+02
TT	7.80000-01	PRV	3.67540-01	FTV	1.28862+02	VDRV	1.28862+02	VRV	1.17436+02
		PAP	1.87810+01	FPV	0.00000	VDAP	-7.33537+01	VAP	1.41215+02
		PVP	8.23111+00	FPS	7.38537+01	VDVP	-5.75072+01	VVP	2.49428+02
		PLV	8.55431-01	FMV	1.31361+02	VDLV	1.31361+02	VLV	1.29611+02
		PAO	8.75416+01	FAV	0.00000	VDAO	-5.93219+01	VAO	1.09427+02
		PSC	5.11476+01	FAS	5.93219+01	VOSC	-2.17063+01	VSC	3.34298+03
T	1.80000+00	PVC	2.03583+00	FVS	8.10230+01	VDVC	-4.68823+01	VVC	5.08956+02
TT	8.00000-01	PRV	3.96013-01	FTV	1.27905+02	VDRV	1.27905+02	VRV	1.20004+02
		PAP	1.85367+01	FPV	0.00000	VDAP	-7.27546+01	VAP	1.39749+02
		PVP	8.19312+00	FPS	7.27548+01	VDVP	-5.76216+01	VVP	2.48276+02
		PLV	8.72708-01	FMV	1.30377+02	VDLV	1.30377+02	VLV	1.32228+02
		PAO	8.66041+01	FAV	0.00000	VDAO	-5.78056+01	VAO	1.08255+02
		PSC	5.11407+01	FAS	5.78058+01	VOSC	-2.32172+01	VSC	3.34253+03
T	1.82000+00	PVC	2.03211+00	FVS	8.10171+01	VDVC	-4.59426+01	VVC	5.08028+02
TT	8.20000-01	PRV	4.04422-01	FTV	1.26960+02	VDRV	1.26960+02	VRV	1.22553+02
		PAP	1.83946+01	FPV	0.00000	VDAP	-7.16766+01	VAP	1.38305+02
		PVP	8.15500+00	FPS	7.16766+01	VDVP	-5.77107+01	VVP	2.47123+02
		PLV	8.82351-01	FMV	1.29393+02	VDLV	1.29393+02	VLV	1.34326+02
		PAO	8.56912+01	FAV	0.00000	VDAO	-5.63295+01	VAO	1.07114+02

		PSC	5.11334+01	FAS	5.63295+01	VDSC	-2.46875+01	VSC	3.34205+03
T	1.84000+00	PVC	2.02347+00	FVS	6.10102+01	VDVC	-4.59145+01	VVC	5.07119+02
TT	8.40000-01	PRV	4.12772-01	FTV	1.26025+02	VDRV	1.26025+02	VRV	1.25083+02
		PAP	1.82053+01	FPV	0.00000	VDAP	-7.06187+01	VAP	1.36882+02
		PVP	8.11694+00	FPS	7.06187+01	VDVP	-5.77927+01	VVP	2.45968+02
		PLV	9.06966-01	FMV	1.28411+02	VDLV	1.28411+02	VLV	1.37404+02
		PAO	8.48016+01	FAV	0.00000	VD AO	-5.48920+01	VAO	1.06002+02
		PSC	5.11256+01	FAS	5.48920+01	VDSC	-2.51183+01	VSC	3.34154+03
T	1.86000+00	PVC	2.02491+00	FVS	8.10026+01	VDVC	-4.40972+01	VVC	5.06227+02
TT	8.60000-01	PRV	4.21050-01	FTV	1.25100+02	VDRV	1.25100+02	VRV	1.27594+02
		PAP	1.89189+01	FPV	0.00000	VDAP	-6.95800+01	VAP	1.35480+02
		PVP	8.07878+00	FPS	6.95806+01	VDVP	-5.78504+01	VVP	2.44811+02
		PLV	9.23751-01	FMV	1.27431+02	VDLV	1.27431+02	VLV	1.39962+02
		PAO	8.39346+01	FAV	0.00000	VD AO	-5.34921+01	VAO	1.04918+02
		PSC	5.11174+01	FAS	5.34921+01	VDSC	-2.75105+01	VSC	3.34101+03
T	1.88000+00	PVC	2.02142+00	FVS	8.09941+01	VDVC	-4.31922+01	VVC	5.05355+02
TT	8.80000-01	PRV	4.29286-01	FTV	1.24186+02	VDRV	1.24186+02	VRV	1.30087+02
		PAP	1.78351+01	FPV	0.00000	VDAP	-6.85619+01	VAP	1.34099+02
		PVP	8.04058+00	FPS	6.85619+01	VDVP	-5.73904+01	VVP	2.43654+02
		PLV	9.40507-01	FMV	1.26452+02	VDLV	1.26452+02	VLV	1.42501+02
		PAO	8.30897+01	FAV	0.00000	VD AO	-5.21289+01	VAO	1.03362+02
		PSC	5.11028+01	FAS	5.21289+01	VDSC	-2.66052+01	VSC	3.34044+03
T	1.90000+00	PVC	2.01800+00	FVS	8.09848+01	VDVC	-4.22970+01	VVC	5.04500+02
TT	9.00000-01	PRV	4.37452-01	FTV	1.23283+02	VDRV	1.23283+02	VRV	1.32561+02
		PAP	1.76541+01	FPV	0.00000	VDAP	-6.75622+01	VAP	1.32738+02
		PVP	8.00232+00	FPS	6.75622+01	VDVP	-5.79134+01	VVP	2.42496+02
		PLV	9.57130-01	FMV	1.25476+02	VDLV	1.25476+02	VLV	1.45020+02
		PAO	8.22663+01	FAV	0.00000	VD AO	-5.03015+01	VAO	1.02833+02
		PSC	5.10997+01	FAS	5.08015+01	VDSC	-5.01833+01	VSC	3.33985+03
T	1.92000+00	PVC	2.01405+00	FVS	8.09748+01	VDVC	-4.14143+01	VVC	5.03663+02
TT	9.20000-01	PRV	4.45559-01	FTV	1.22389+02	VDRV	1.22389+02	VRV	1.35016+02
		PAP	1.74757+01	FPV	0.00000	VDAP	-6.65809+01	VAP	1.31390+02
		PVP	7.96411+00	FPS	6.65809+01	VDVP	-5.79200+01	VVP	2.41338+02
		PLV	9.73633-01	FMV	1.24501+02	VDLV	1.24501+02	VLV	1.47520+02
		PAO	8.14632+01	FAV	0.00000	VD AO	-4.95089+01	VAO	1.01830+02
		PSC	5.10903+01	FAS	4.95089+01	VDSC	-3.14559+01	VSC	3.33923+03
T	1.94000+00	PVC	2.01137+00	FVS	8.09640+01	VDVC	-4.05416+01	VVC	5.02843+02
TT	9.40000-01	PRV	4.53602-01	FTV	1.21506+02	VDRV	1.21506+02	VRV	1.37457+02
		PAP	1.72999+01	FPV	0.00000	VDAP	-6.56177+01	VAP	1.30074+02
		PVP	7.92591+00	FPS	6.56177+01	VDVP	-5.79103+01	VVP	2.40179+02
		PLV	9.99003-01	FMV	1.23529+02	VDLV	1.23529+02	VLV	1.50000+02
		PAO	8.06313+01	FAV	0.00000	VD AO	-4.82502+01	VAO	1.00652+02
		PSC	5.10805+01	FAS	4.82502+01	VDSC	-3.27130+01	VSC	3.33859+03

T	1.96000+00	PVC	2.00816+00	FVS	8.09525+01	VDVC	-3.96796+01	VVC	5.02041+02
TT	9.60000-01	PRV	4.61598-01	FTV	1.20632+02	VDRV	1.20632+02	VRV	1.39878+02
		PAP	1.71266+01	FPV	0.00000	VDAP	-6.46723+01	VAP	1.28771+02
		PVP	7.88770+00	FPS	6.46723+01	VDVP	-5.78365+01	VVP	2.39021+02
		PLV	1.00624+00	FMV	1.22559+02	VDLV	1.22559+02	VLV	1.52461+02
		PAO	7.99197+01	FAV	0.00000	VDAO	-4.70245+01	VAO	9.98996+01
		PSC	5.10703+01	FAS	4.70245+01	VDSC	-3.39280+01	VSC	3.33793+03
T	1.98000+00	PVC	2.00502+00	FVS	8.09402+01	VDVC	-3.88281+01	VVC	5.01256+02
TT	9.79948-01	PRV	4.69531-01	FTV	1.19768+02	VDRV	1.19768+02	VRV	1.42282+02
		PAP	1.69558+01	FPV	0.00000	VDAP	-6.37441+01	VAP	1.27487+02
		PVP	7.84951+00	FPS	6.37441+01	VDVP	-5.78474+01	VVP	2.37864+02
		PLV	1.02236+00	FMV	1.21592+02	VDLV	1.21592+02	VLV	1.54903+02
		PAO	7.91769+01	FAV	0.00000	VDAO	-4.58310+01	VAO	9.89711+01
		PSC	5.10597+01	FAS	4.58310+01	VDSC	-3.51093+01	VSC	3.33724+03
T	2.00000+00	PVC	2.00195+00	FVS	8.09273+01	VDVC	-3.79871+01	VVC	5.00488+02
TT	0.00000	PRV	4.77408-01	FTV	1.18914+02	VDRV	1.18914+02	VRV	1.44669+02
		PAP	1.67875+01	FPV	0.00000	VDAP	-6.28320+01	VAP	1.26222+02
		PVP	7.81135+00	FPS	6.28328+01	VDVP	-5.77943+01	VVP	2.36707+02
		PLV	1.03834+00	FMV	1.20627+02	VDLV	1.20627+02	VLV	1.57325+02
		PAO	7.84529+01	FAV	0.00000	VDAO	-4.46687+01	VAO	9.80662+01
		PSC	5.10488+01	FAS	4.46687+01	VDSC	-3.62580+01	VSC	3.33652+03
T	2.02000+00	PVC	2.00629+00	FVS	8.09016+01	VDVC	8.09016+01	VVC	5.01573+02
TT	2.00000-02	PRV	3.86963+00	FTV	0.00000	VDRV	0.00000	VRV	1.45202+02
		PAP	1.66222+01	FPV	0.00000	VDAP	-6.14297+01	VAP	1.24979+02
		PVP	7.84647+00	FPS	6.14297+01	VDVP	6.14297+01	VVP	2.37772+02
		PLV	4.77707+01	FMV	0.00000	VDLV	0.00000	VLV	1.57503+02
		PAO	7.77472+01	FAV	0.00000	VDAO	-4.35370+01	VAO	9.71842+01
		PSC	5.10375+01	FAS	4.35370+01	VDSC	-3.73646+01	VSC	3.33579+03
T	2.04000+00	PVC	2.01276+00	FVS	8.08721+01	VDVC	8.08721+01	VVC	5.03191+02
TT	4.00000-02	PRV	7.26011+00	FTV	0.00000	VDRV	0.00000	VRV	1.45202+02
		PAP	1.64601+01	FPV	0.00000	VDAP	-6.00186+01	VAP	1.23764+02
		PVP	7.88655+00	FPS	6.00186+01	VDVP	6.00186+01	VVP	2.38986+02
		PLV	9.21067+01	FMV	0.00000	VDLV	-9.49150+02	VLV	1.53511+02
		PAO	8.02423+01	FAV	9.49150+02	VDAO	9.01527+02	VAO	1.00303+02
		PSC	5.10262+01	FAS	4.76224+01	VDSC	-3.32497+01	VSC	3.33504+03
T	2.06000+00	PVC	2.01923+00	FVS	8.08508+01	VDVC	8.08508+01	VVC	5.04808+02
TT	5.99999-02	PRV	1.68901+01	FTV	0.00000	VDRV	0.00000	VRV	1.45202+02
		PAP	1.63021+01	FPV	0.00000	VDAP	-5.56396+01	VAP	1.22578+02
		PVP	7.92571+00	FPS	5.86398+01	VDVP	5.86398+01	VVP	2.40173+02
		PLV	1.06947+02	FMV	0.00000	VDLV	-9.44080+02	VLV	1.33684+02
		PAO	9.51461+01	FAV	9.44080+02	VDAO	8.72154+02	VAO	1.18933+02
		PSC	5.10197+01	FAS	7.19260+01	VDSC	-6.92486+00	VSC	3.33462+03

T	2.08000+00	PVC	2.02578+00	FVS	8.08409+01	VDVC	8.08409+01	VVC	5.06425+02
TT	7.99999-02	PRV	1.45202+01	FTV	0.00000	VDRV	0.00000	VRV	1.45202+02
		PAP	1.61488+01	FPV	0.00000	VDAP	-5.72926+01	VAP	1.21418+02
		PVP	7.96398+00	FPS	5.72928+01	VDVP	5.72926+01	VVP	2.41332+02
		PLV	1.16758+02	FMV	0.00000	VCLV	-7.51047+02	VLV	1.16758+02
		PAO	1.07368+02	FAV	7.51047+02	VDAO	0.59190+02	VAO	1.34212+02
		PSC	5.10202+01	FAS	9.18493+01	VUSC	1.10084+01	VSC	3.33465+03

T	2.10000+00	PVC	2.03217+00	FVS	8.08390+01	VDVC	8.08390+01	VVC	5.08042+02
TT	9.99999-02	PRV	1.60230+01	FTV	0.00000	VDRV	-1.70267+02	VRV	1.44191+02
		PAP	1.61321+01	FPV	1.70267+02	VDAP	1.13354+02	VAP	1.21293+02
		PVP	8.00148+00	FPS	5.69133+01	VDVP	5.69133+01	VVP	2.42468+02
		PLV	1.19485+02	FMV	0.00000	VCLV	-4.19982+02	VLV	1.06211+02
		PAO	1.14237+02	FAV	4.19982+02	VDAO	3.16947+02	VAO	1.42796+02
		PSC	5.10255+01	FAS	1.03035+02	VUSC	2.21900+01	VSC	3.33500+03

T	2.12000+00	PVC	2.03863+00	FVS	8.08414+01	VDVC	8.08414+01	VVC	5.09658+02
TT	1.20000-01	PRV	2.07931+01	FTV	0.00000	VDRV	-3.00030+02	VRV	1.38821+02
		PAP	1.67171+01	FPV	3.66836+02	VDAP	3.00997+02	VAP	1.25693+02
		PVP	8.04000+00	FPS	6.07394+01	VDVP	6.07394+01	VVP	2.43639+02
		PLV	1.23148+02	FMV	0.00000	VCLV	-3.57314+02	VLV	9.65187+01
		PAO	1.18662+02	FAV	3.57314+02	VDAO	2.47047+02	VAO	1.48352+02
		PSC	5.10334+01	FAS	1.10267+02	VUSC	2.94250+01	VSC	3.33552+03

T	2.14000+00	PVC	2.04518+00	FVS	8.08467+01	VDVC	8.08467+01	VVC	5.11275+02
TT	1.40000-01	PRV	2.22202+01	FTV	0.00000	VDRV	-4.15774+02	VRV	1.30707+02
		PAP	1.76009+01	FPV	4.15774+02	VDAP	3.49145+02	VAP	1.32334+02
		PVP	8.08208+00	FPS	6.66286+01	VDVP	6.66286+01	VVP	2.44911+02
		PLV	1.23712+02	FMV	0.00000	VCLV	-2.16546+02	VLV	9.33676+01
		PAO	1.21904+02	FAV	2.16648+02	VDAO	1.82612+02	VAO	1.51255+02
		PSC	5.10431+01	FAS	1.14036+02	VUSC	3.31895+01	VSC	3.33615+03

T	2.16000+00	PVC	2.05157+00	FVS	8.08534+01	VDVC	8.08534+01	VVC	5.12892+02
TT	1.60000-01	PRV	2.32313+01	FTV	0.00000	VDRV	-4.22480+02	VRV	1.22270+02
		PAP	1.85378+01	FPV	4.22480+02	VDAP	3.49626+02	VAP	1.39376+02
		PVP	8.12811+00	FPS	7.28623+01	VDVP	7.28623+01	VVP	2.46306+02
		PLV	1.24934+02	FMV	0.00000	VCLV	-1.93350+02	VLV	8.92424+01
		PAO	1.22460+02	FAV	1.98356+02	VDAO	0.19641+01	VAO	1.53075+02
		PSC	5.10530+01	FAS	1.16392+02	VUSC	3.35389+01	VSC	3.33684+03

T	2.18000+00	PVC	2.05804+00	FVS	8.08610+01	VDVC	8.08610+01	VVC	5.14509+02
TT	1.80000-01	PRV	2.44111+01	FTV	0.00000	VDRV	-4.42349+02	VRV	1.13539+02
		PAP	1.94960+01	FPV	4.42349+02	VDAP	3.53125+02	VAP	1.46536+02
		PVP	8.17320+00	FPS	7.92238+01	VDVP	7.92238+01	VVP	2.47827+02
		PLV	1.24255+02	FMV	0.00000	VCLV	-1.40361+02	VLV	8.61068+01
		PAO	1.23095+02	FAV	1.40681+02	VDAO	2.22093+01	VAO	1.53870+02
		PSC	5.10647+01	FAS	1.17411+02	VUSC	3.65505+01	VSC	3.33756+03

T	2.20000+00	PVC	2.06451+00	FVS	8.08689+01	VDVC	8.08689+01	VVC	5.16127+02
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TT	2.00000-01	PRV	2.51575+01	FTV	0.00000	VDRV	-4.24922+02	VRV	1.04823+02
		PAP	2.04362+01	FPV	4.24922+02	VDAP	3.39497+02	VAP	1.53655+02
		PVP	8.23265+00	FPS	0.54246+01	VDVP	0.54246+01	VVP	2.49474+02
		PLV	1.25066+02	FMV	0.00000	VDLV	-1.33254+02	VLV	8.33760+01
		PAO	1.23396+02	FAV	1.33254+02	VDAO	1.53683+01	VAO	1.54248+02
		PSC	5.10759+01	FAS	1.17885+02	VDSC	3.70165+01	VSC	3.33830+03
T	2.22000+00	PVC	2.07095+00	FVS	8.08770+01	VDVC	8.08770+01	VVC	5.17744+02
TT	2.20000-01	PRV	2.60022+01	FTV	0.00000	VDRV	-4.20132+02	VRV	9.63045+01
		PAP	2.13346+01	FPV	4.20132+02	VDAP	3.28831+02	VAP	1.60406+02
		PVP	8.29096+00	FPS	9.13014+01	VDVP	9.13014+01	VVP	2.51242+02
		PLV	1.25191+02	FMV	0.00000	VDLV	-1.27624+02	VLV	3.67683+01
		PAO	1.23596+02	FAV	1.27624+02	VDAO	9.43506+00	VAO	1.54494+02
		PSC	5.10273+01	FAS	1.18188+02	VDSC	3.73115+01	VSC	3.33904+03
T	2.24000+00	PVC	2.07745+00	FVS	8.08852+01	VDVC	8.08852+01	VVC	5.19362+02
TT	2.40000-01	PRV	2.64613+01	FTV	0.00000	VDRV	-3.87003+02	VRV	8.82043+01
		PAP	2.21612+01	FPV	3.87005+02	VDAP	2.90347+02	VAP	1.66620+02
		PVP	8.35395+00	FPS	9.66572+01	VDVP	9.66572+01	VVP	2.53123+02
		PLV	1.25231+02	FMV	0.00000	VDLV	-1.22337+02	VLV	7.82696+01
		PAO	1.23702+02	FAV	1.22337+02	VDAO	3.99334+00	VAO	1.54626+02
		PSC	5.10984+01	FAS	1.18343+02	VDSC	3.74583+01	VSC	3.33979+03
T	2.26000+00	PVC	2.08392+00	FVS	8.08931+01	VDVC	8.08931+01	VVC	5.20979+02
TT	2.60000-01	PRV	2.66931+01	FTV	0.00000	VDRV	-3.43996+02	VRV	8.08383+01
		PAP	2.28706+01	FPV	3.43995+02	VDAP	2.42628+02	VAP	1.71962+02
		PVP	8.41835+00	FPS	1.01168+02	VDVP	1.01168+02	VVP	2.55102+02
		PLV	1.23297+02	FMV	0.00000	VDLV	-4.09413+01	VLV	7.70608+01
		PAO	1.22786+02	FAV	4.09413+01	VDAO	-7.58897+01	VAO	1.53482+02
		PSC	5.11106+01	FAS	1.16831+02	VDSC	3.59380+01	VSC	3.34052+03
T	2.28000+00	PVC	2.09039+00	FVS	8.09000+01	VDVC	8.09000+01	VVC	5.22597+02
TT	2.80000-01	PRV	2.67993+01	FTV	0.00000	VDRV	-3.01073+02	VRV	7.44427+01
		PAP	2.34541+01	FPV	3.01073+02	VDAP	1.96299+02	VAP	1.76347+02
		PVP	8.48639+00	FPS	1.04774+02	VDVP	1.04774+02	VVP	2.57163+02
		PLV	1.22041+02	FMV	0.00000	VDLV	-3.84886+01	VLV	7.62759+01
		PAO	1.21560+02	FAV	3.84886+01	VDAO	-7.63279+01	VAO	1.51950+02
		PSC	5.11207+01	FAS	1.14816+02	VDSC	3.39165+01	VSC	3.34122+03
T	2.30000+00	PVC	2.09686+00	FVS	8.09058+01	VDVC	8.09058+01	VVC	5.24215+02
TT	3.00000-01	PRV	2.63311+01	FTV	0.00000	VDRV	-2.22676+02	VRV	6.92925+01
		PAP	2.38569+01	FPV	2.22678+02	VDAP	1.15575+02	VAP	1.79375+02
		PVP	8.55639+00	FPS	1.07104+02	VDVP	1.07104+02	VVP	2.59285+02
		PLV	1.18129+02	FMV	0.00000	VDLV	0.00000	VLV	7.62124+01
		PAO	1.19797+02	FAV	0.00000	VDAO	-1.11926+02	VAO	1.49746+02
		PSC	5.11307+01	FAS	1.11926+02	VDSC	3.10196+01	VSC	3.34187+03
T	2.32000+00	PVC	2.10333+00	FVS	8.09100+01	VDVC	8.09100+01	VVC	5.25833+02
TT	3.20000-01	PRV	2.61173+01	FTV	0.00000	VDRV	-1.61369+02	VRV	6.52934+01

		PAP	2.41021+01	FPV	1.81369+02	VDAP	7.30469+01	VAP	1.81219+02
		PVP	8.62752+00	FPS	1.08322+02	VDVP	1.08322+02	VVP	2.61440+02
		PLV	1.14319+02	FMV	0.00000	VDLV	0.00000	VLV	7.62124+01
		PAO	1.18029+02	FAV	0.00000	VD AO	-1.39030+02	VAO	1.47536+02
		PSC	5.11397+01	FAS	1.09030+02	VDSC	2.81197+01	VSC	3.34246+03
T	2.34000+00	PVC	2.10981+00	FVS	8.09128+01	VDVC	8.09128+01	VVC	5.27452+02
TT	3.40000-01	PRV	2.25446+01	FTV	0.00000	VDRV	0.00000	VRV	6.44138+01
		PAP	2.39325+01	FPV	0.00000	VDAP	-1.04186+02	VAP	1.79944+02
		PVP	8.69364+00	FPS	1.06637+02	VDVP	1.06637+02	VVP	2.63595+02
		PLV	9.52658+01	FMV	0.00000	VDLV	0.00000	VLV	7.62124+01
		PAO	1.16307+02	FAV	0.00000	VD AO	-1.06210+02	VAO	1.45384+02
		PSC	5.11479+01	FAS	1.06210+02	VDSC	2.52971+01	VSC	3.34300+03
T	2.36000+00	PVC	2.11628+00	FVS	8.09142+01	VDVC	8.09142+01	VVC	5.29070+02
TT	3.60000-01	PRV	1.93242+01	FTV	0.00000	VDRV	0.00000	VRV	6.44138+01
		PAP	2.36521+01	FPV	0.00000	VDAP	-1.04186+02	VAP	1.77836+02
		PVP	8.76828+00	FPS	1.04188+02	VDVP	1.04188+02	VVP	2.65703+02
		PLV	7.62127+01	FMV	0.00000	VDLV	0.00000	VLV	7.62124+01
		PAO	1.14631+02	FAV	0.00000	VD AO	-1.03464+02	VAO	1.43288+02
		PSC	5.11552+01	FAS	1.03464+02	VDSC	2.25496+01	VSC	3.34348+03
T	2.38000+00	PVC	2.12275+00	FVS	8.09142+01	VDVC	8.09142+01	VVC	5.30688+02
TT	3.80000-01	PRV	9.76852+00	FTV	0.00000	VDRV	0.00000	VRV	6.44138+01
		PAP	2.33782+01	FPV	0.00000	VDAP	-1.01794+02	VAP	1.75776+02
		PVP	8.63617+00	FPS	1.01794+02	VDVP	1.01794+02	VVP	2.67763+02
		PLV	3.83588+01	FMV	0.00000	VDLV	0.00000	VLV	7.62124+01
		PAO	1.12996+02	FAV	0.00000	VD AO	-1.01790+02	VAO	1.41245+02
		PSC	5.11617+01	FAS	1.00790+02	VDSC	1.98759+01	VSC	3.34390+03
T	2.40000+00	PVC	2.12803+00	FVS	8.09149+01	VDVC	-8.83999+01	VVC	5.32007+02
TT	4.00000-01	PRV	2.13734-01	FTV	1.49315+02	VDRV	1.49315+02	VRV	6.47137+01
		PAP	2.31105+01	FPV	0.00000	VDAP	-9.95316+01	VAP	1.73763+02
		PVP	8.89172+00	FPS	9.95316+01	VDVP	-4.93202+01	VVP	2.69446+02
		PLV	5.55863-01	FMV	1.49352+02	VDLV	1.49352+02	VLV	7.65416+01
		PAO	1.11404+02	FAV	0.00000	VD AO	-9.81663+01	VAO	1.39255+02
		PSC	5.11671+01	FAS	9.81863+01	VDSC	1.72714+01	VSC	3.34427+03
T	2.42000+00	PVC	2.12268+00	FVS	8.09319+01	VDVC	-8.72080+01	VVC	5.30650+02
TT	4.20000-01	PRV	2.23371-01	FTV	1.48140+02	VDRV	1.48140+02	VRV	6.76883+01
		PAP	2.28479+01	FPV	0.00000	VDAP	-9.79251+01	VAP	1.71789+02
		PVP	8.65801+00	FPS	9.79251+01	VDVP	-5.04995+01	VVP	2.68443+02
		PLV	5.24529-01	FMV	1.48425+02	VDLV	1.48425+02	VLV	7.95195+01
		PAO	1.89558+02	FAV	0.00000	VD AO	-9.56509+01	VAO	1.57317+02
		PSC	5.11722+01	FAS	9.56509+01	VDSC	1.47190+01	VSC	3.34459+03
T	2.44000+00	PVC	2.11727+00	FVS	8.09475+01	VDVC	-8.60172+01	VVC	5.29318+02
TT	4.40000-01	PRV	2.33111-01	FTV	1.48965+02	VDRV	1.48965+02	VRV	7.96393+01
		PAP	2.25995+01	FPV	0.00000	VDAP	-9.55313+01	VAP	1.69845+02

		PVP	8.82507+00	FPS	9.63513+01	VDVP	-5.11282+01	VVP	2.67426+02
		PLV	5.44358+01	FMV	1.47479+02	VDLV	1.47479+02	VLV	8.24786+01
		PAO	1.08343+02	FAV	0.00000	VDAO	-9.31819+01	VAO	1.35429+02
		PSC	5.11766+01	FAS	9.31819+01	VDSC	1.22344+01	VSC	3.34486+03
T	2.46000+00	PVC	2.11204+00	FVS	8.09617+01	VDVC	-6.48412+01	VVC	5.28010+02
TT	4.60000-01	PRV	2.42771-01	FTV	1.45803+02	VDRV	1.45303+02	VRV	7.35670+01
		PAP	2.23353+01	FPV	0.00000	VDAP	-9.48092+01	VAP	1.67935+02
		PVP	8.79113+00	FPS	9.48092+01	VDVP	-5.17202+01	VVP	2.66398+02
		PLV	5.63765+01	FMV	1.46529+02	VDLV	1.46529+02	VLV	8.54187+01
		PAO	1.06872+02	FAV	0.00000	VDAO	-9.07777+01	VAO	1.33590+02
		PSC	5.11797+01	FAS	9.07777+01	VDSC	9.81604+00	VSC	3.34508+03
T	2.48000+00	PVC	2.10698+00	FVS	8.09745+01	VDVC	-6.35797+01	VVC	5.26724+02
TT	4.80000-01	PRV	2.52355-01	FTV	1.44654+02	VDRV	1.44654+02	VRV	7.64715+01
		PAP	2.20851+01	FPV	0.00000	VDAP	-9.32982+01	VAP	1.66054+02
		PVP	8.75681+00	FPS	9.32982+01	VDVP	-5.22706+01	VVP	2.65358+02
		PLV	5.83942-01	FMV	1.45575+02	VDLV	1.45575+02	VLV	8.63397+01
		PAO	1.05438+02	FAV	0.00000	VDAO	-8.84366+01	VAO	1.31797+02
		PSC	5.11824+01	FAS	8.84366+01	VDSC	7.46208+00	VSC	3.34525+03
T	2.50000+00	PVC	2.10185+00	FVS	8.09861+01	VDVC	-6.25327+01	VVC	5.25462+02
TT	5.00000-01	PRV	2.61866-01	FTV	1.43519+02	VDRV	1.43519+02	VRV	7.93532+01
		PAP	2.16386+01	FPV	0.00000	VDAP	-9.18176+01	VAP	1.64202+02
		PVP	8.72213+00	FPS	9.18176+01	VDVP	-5.27985+01	VVP	2.64307+02
		PLV	6.02195-01	FMV	1.44616+02	VDLV	1.44616+02	VLV	9.12416+01
		PAO	1.04041+02	FAV	0.00000	VDAO	-8.61569+01	VAO	1.30052+02
		PSC	5.11843+01	FAS	8.61569+01	VDSC	5.17085+00	VSC	3.34538+03
T	2.52000+00	PVC	2.09688+00	FVS	8.09963+01	VDVC	-6.13999+01	VVC	5.24223+02
TT	5.20000-01	PRV	2.71301-01	FTV	1.42396+02	VDRV	1.42396+02	VRV	8.22123+01
		PAP	2.15968+01	FPV	0.00000	VDAP	-9.03306+01	VAP	1.62381+02
		PVP	8.68712+00	FPS	9.03666+01	VDVP	-5.32372+01	VVP	2.63246+02
		PLV	6.21221-01	FMV	1.43654+02	VDLV	1.43654+02	VLV	9.41243+01
		PAO	1.02681+02	FAV	0.00000	VDAO	-8.39370+01	VAO	1.28351+02
		PSC	5.11856+01	FAS	8.39370+01	VDSC	2.94071+00	VSC	3.34546+03
T	2.54000+00	PVC	2.09263+00	FVS	8.10053+01	VDVC	-6.02811+01	VVC	5.23006+02
TT	5.39999-01	PRV	2.80362-01	FTV	1.41286+02	VDRV	1.41286+02	VRV	8.50491+01
		PAP	2.13582+01	FPV	0.00000	VDAP	-8.39445+01	VAP	1.60588+02
		PVP	8.65188+00	FPS	8.89445+01	VDVP	-5.37436+01	VVP	2.62176+02
		PLV	6.40118-01	FMV	1.42688+02	VDLV	1.42688+02	VLV	9.69877+01
		PAO	1.01355+02	FAV	0.00000	VDAO	-8.17753+01	VAO	1.26694+02
		PSC	5.11861+01	FAS	8.17753+01	VDSC	7.70066-01	VSC	3.34550+03
T	2.56000+00	PVC	2.08725+00	FVS	8.10130+01	VDVC	-5.91761+01	VVC	5.21812+02
TT	5.59999-01	PRV	2.89951-01	FTV	1.40180+02	VDRV	1.40189+02	VRV	8.78639+01
		PAP	2.11239+01	FPV	0.00000	VDAP	-8.75506+01	VAP	1.58823+02
		PVP	8.61511+00	FPS	8.75506+01	VDVP	-5.41686+01	VVP	2.61097+02

		PLV	6.58890-01	FMV	1.41719+02	VDLV	1.41719+02	VLV	9.98318+01
		PAO	1.00060+02	FAV	0.00000	VDAP	-7.96703+01	VAJ	1.25079+02
		PSC	5.11860+01	FAS	7.96703+01	VDSC	-1.34265+00	VSC	3.34549+03
T	2.58000+00	PVC	2.08250+00	FVS	8.10195+01	VDVC	-5.83840+01	VVC	5.20639+02
TT	5.79999-01	PRV	2.99167-01	FTV	1.39104+02	VDRV	1.39104+02	VRV	9.06566+01
		PAP	2.08920+01	FPV	0.00000	VDAP	-8.51444+01	VAP	1.57085+02
		PVP	8.58630+00	FPS	8.61844+01	VDVP	-5.45540+01	VVP	2.60809+02
		PLV	6.77533-01	FMV	1.40748+02	VDLV	1.40748+02	VLV	1.02657+02
		PAO	9.88053+01	FAV	0.00000	VDAP	-7.75200+01	VAJ	1.23507+02
		PSC	5.11853+01	FAS	7.76206+01	VDSC	-3.39890+00	VSC	3.34544+03
T	2.60000+00	PVC	2.07795+00	FVS	8.10249+01	VDVC	-5.79070+01	VVC	5.19480+02
TT	5.99999-01	PRV	3.08313-01	FTV	1.38032+02	VDRV	1.38032+02	VRV	9.34281+01
		PAP	2.06640+01	FPV	0.00000	VDAP	-8.48451+01	VAP	1.55375+02
		PVP	8.54417+00	FPS	8.48451+01	VDVP	-5.49300+01	VVP	2.58914+02
		PLV	6.96047-01	FMV	1.39775+02	VDLV	1.39775+02	VLV	1.05462+02
		PAO	9.75794+01	FAV	0.00000	VDAP	-7.56240+01	VAJ	1.21974+02
		PSC	5.11840+01	FAS	7.56240+01	VDSC	-5.40033+00	VSC	3.34536+03
T	2.62000+00	PVC	2.07344+00	FVS	8.10291+01	VDVC	-5.59420+01	VVC	5.18359+02
TT	6.19999-01	PRV	3.17387-01	FTV	1.36972+02	VDRV	1.36972+02	VRV	9.61781+01
		PAP	2.04410+01	FPV	0.00000	VDAP	-8.35321+01	VAP	1.53691+02
		PVP	8.50780+00	FPS	8.35321+01	VDVP	-5.52070+01	VVP	2.57812+02
		PLV	7.14433-01	FMV	1.38809+02	VDLV	1.38809+02	VLV	1.08247+02
		PAO	9.63350+01	FAV	0.00000	VDAP	-7.36809+01	VAJ	1.20481+02
		PSC	5.11820+01	FAS	7.36809+01	VDSC	-7.34821+00	VSC	3.34523+03
T	2.64000+00	PVC	2.06900+00	FVS	8.10323+01	VDVC	-5.48912+01	VVC	5.17251+02
TT	6.39999-01	PRV	3.26393-01	FTV	1.35923+02	VDRV	1.35923+02	VRV	9.89071+01
		PAP	2.02205+01	FPV	0.00000	VDAP	-8.22440+01	VAP	1.52034+02
		PVP	8.47120+00	FPS	8.22448+01	VDVP	-5.55784+01	VVP	2.50704+02
		PLV	7.32691-01	FMV	1.37823+02	VDLV	1.37823+02	VLV	1.11014+02
		PAO	9.52213+01	FAV	0.00000	VDAP	-7.17083+01	VAJ	1.19027+02
		PSC	5.11795+01	FAS	7.17083+01	VDSC	-9.24401+00	VSC	3.34506+03
T	2.66000+00	PVC	2.06465+00	FVS	8.10343+01	VDVC	-5.38520+01	VVC	5.16163+02
TT	6.59999-01	PRV	3.35331-01	FTV	1.34887+02	VDRV	1.34887+02	VRV	1.01615+02
		PAP	2.00034+01	FPV	0.00000	VDAP	-8.19627+01	VAP	1.50402+02
		PVP	8.43445+00	FPS	8.09327+01	VDVP	-5.58627+01	VVP	2.55389+02
		PLV	7.50810-01	FMV	1.36845+02	VDLV	1.36845+02	VLV	1.13760+02
		PAO	9.40675+01	FAV	0.00000	VDAP	-6.99452+01	VAJ	1.17009+02
		PSC	5.11760+01	FAS	6.99452+01	VDSC	-1.18891+01	VSC	3.34486+03
T	2.68000+00	PVC	2.06030+00	FVS	8.10353+01	VDVC	-5.28273+01	VVC	5.15096+02
TT	6.79999-01	PRV	3.44190-01	FTV	1.33863+02	VDRV	1.33863+02	VRV	1.04303+02
		PAP	1.97896+01	FPV	0.00000	VDAP	-7.97450+01	VAP	1.48794+02
		PVP	8.39740+00	FPS	7.97450+01	VDVP	-5.51210+01	VVP	2.54469+02
		PLV	7.68810-01	FMV	1.35867+02	VDLV	1.35867+02	VLV	1.10480+02

		PAO	9.29628+01	FAV	0.00000	VDAO	-0.81505+01	VAC	1.16229+02
		PSC	5.11727+01	FAS	6.81505+01	VDSC	-1.28547+01	VSC	3.34462+03
T	2.70000+00	PVC	2.05627+00	FVS	8.10352+01	VDVC	-5.18143+01	VVC	5.14050+02
TT	6.99999-01	PRV	3.53000-01	FTV	1.32850+02	VDRV	1.32850+02	VRV	1.06970+02
		PAP	1.95791+01	FPV	0.00000	VDAP	-7.85313+01	VAP	1.47212+02
		PVP	8.36037+00	FPS	7.85313+01	VDVP	-5.63500+01	VVP	2.53345+02
		PLV	7.86387-01	FMV	1.34887+02	VLLV	1.34887+02	VLV	1.19195+02
		PAO	9.19005+01	FAV	0.00000	VDAO	-0.84029+01	VAC	1.14383+02
		PSC	5.11685+01	FAS	6.64029+01	VDSC	-1.46323+01	VSC	3.34434+03
T	2.72000+00	PVC	2.05200+00	FVS	8.10342+01	VDVC	-5.68139+01	VVC	5.13024+02
TT	7.19999-01	PRV	3.61735-01	FTV	1.31848+02	VDRV	1.31848+02	VRV	1.09617+02
		PAP	1.93710+01	FPV	0.00000	VDAP	-7.73411+01	VAP	1.45053+02
		PVP	8.32311+00	FPS	7.73411+01	VDVP	-5.55060+01	VVP	2.52215+02
		PLV	8.00422-01	FMV	1.33906+02	VLLV	1.33906+02	VLV	1.21383+02
		PAO	9.08577+01	FAV	0.00000	VDAO	-0.47012+01	VAC	1.13572+02
		PSC	5.11637+01	FAS	6.47012+01	VDSC	-1.63330+01	VSC	3.34403+03
T	2.74000+00	PVC	2.04307+00	FVS	8.10322+01	VDVC	-4.98257+01	VVC	5.12017+02
TT	7.39999-01	PRV	3.70400-01	FTV	1.30858+02	VDRV	1.30858+02	VRV	1.12244+02
		PAP	1.91677+01	FPV	0.00000	VDAP	-7.61737+01	VAP	1.44118+02
		PVP	8.28571+00	FPS	7.61737+01	VDVP	-5.67343+01	VVP	2.51082+02
		PLV	8.22030-01	FMV	1.32928+02	VLLV	1.32928+02	VLV	1.24551+02
		PAO	8.98352+01	FAV	0.00000	VDAO	-0.30440+01	VAC	1.12295+02
		PSC	5.11585+01	FAS	6.30440+01	VDSC	-1.79882+01	VSC	3.34369+03
T	2.76000+00	PVC	2.04412+00	FVS	8.10292+01	VDVC	-4.38497+01	VVC	5.11031+02
TT	7.59999-01	PRV	3.79000-01	FTV	1.29879+02	VDRV	1.29879+02	VRV	1.14851+02
		PAP	1.89566+01	FPV	0.00000	VDAP	-7.50286+01	VAP	1.42606+02
		PVP	8.24820+00	FPS	7.50286+01	VDVP	-5.59199+01	VVP	2.49945+02
		PLV	8.39521-01	FMV	1.31948+02	VLLV	1.31948+02	VLV	1.27200+02
		PAO	8.88401+01	FAV	0.00000	VDAO	-0.14304+01	VAC	1.11050+02
		PSC	5.11527+01	FAS	6.14304+01	VDSC	-1.95989+01	VSC	3.34332+03
T	2.78000+00	PVC	2.04025+00	FVS	8.10253+01	VDVC	-4.76857+01	VVC	5.10063+02
TT	7.79999-01	PRV	3.87540-01	FTV	1.28911+02	VDRV	1.28911+02	VRV	1.17439+02
		PAP	1.87585+01	FPV	0.00000	VDAP	-7.39054+01	VAP	1.41116+02
		PVP	8.21050+00	FPS	7.39054+01	VDVP	-5.70041+01	VVP	2.48805+02
		PLV	8.56373-01	FMV	1.30970+02	VLLV	1.30970+02	VLV	1.29829+02
		PAO	8.76690+01	FAV	0.00000	VDAO	-5.98590+01	VAC	1.09837+02
		PSC	5.11465+01	FAS	5.98590+01	VDSC	-2.11603+01	VSC	3.34291+03
T	2.80000+00	PVC	2.03364+00	FVS	8.10205+01	VDVC	-4.69335+01	VVC	5.09115+02
TT	7.99999-01	PRV	3.96025-01	FTV	1.27954+02	VDRV	1.27954+02	VRV	1.20000+02
		PAP	1.85734+01	FPV	0.00000	VDAP	-7.28035+01	VAP	1.39649+02
		PVP	8.17280+00	FPS	7.28035+01	VDVP	-5.71870+01	VVP	2.47063+02
		PLV	8.74097-01	FMV	1.29991+02	VLLV	1.29991+02	VLV	1.32439+02
		PAO	8.69240+01	FAV	0.00000	VDAO	-5.53289+01	VAC	1.08055+02

		PSC	5.11394+01	FAS	5.83289+01	VDSC	-2.26916+01	VSC	3.34247+03
T	2.82000+00	PVC	2.03274+00	FVS	8.10148+01	VDVC	-4.59930+01	VVC	5.08186+02
TT	8.19999-01	PRV	4.04439-01	FTV	1.27008+02	VDRV	1.27008+02	VRV	1.22557+02
		PAP	1.83812+01	FPV	0.00000	VDAP	-7.17224+01	VAP	1.38204+02
		PVP	8.13518+00	FPS	7.17224+01	VDVP	-5.72915+01	VVP	2.46518+02
		PLV	8.91191-01	FMV	1.29014+02	VDLV	1.29014+02	VLV	1.35029+02
		PAO	8.60031+01	FAV	0.00000	VDAO	-5.06389+01	VAO	1.07504+02
		PSC	5.11326+01	FAS	5.68389+01	VDSC	-2.41759+01	VSC	3.34200+03
T	2.84000+00	PVC	2.02918+00	FVS	8.10082+01	VDVC	-4.50640+01	VVC	5.07275+02
TT	8.39999-01	PRV	4.12791-01	FTV	1.26972+02	VDRV	1.26972+02	VRV	1.25088+02
		PAP	1.81918+01	FPV	0.00000	VDAP	-7.06616+01	VAP	1.36780+02
		PVP	8.09726+00	FPS	7.06618+01	VDVP	-5.73761+01	VVP	2.45371+02
		PLV	9.00152-01	FMV	1.28038+02	VDLV	1.28038+02	VLV	1.37599+02
		PAO	8.51053+01	FAV	0.00000	VDAO	-5.53679+01	VAO	1.06382+02
		PSC	5.11250+01	FAS	5.53879+01	VDSC	-2.56203+01	VSC	3.34150+03
T	2.86000+00	PVC	2.02553+00	FVS	8.10008+01	VDVC	-4.41465+01	VVC	5.06383+02
TT	8.59999-01	PRV	4.21086-01	FTV	1.25147+02	VDRV	1.25147+02	VRV	1.27600+02
		PAP	1.80052+01	FPV	0.00000	VDAP	-6.96210+01	VAP	1.35378+02
		PVP	8.05934+00	FPS	6.96210+01	VDVP	-5.74421+01	VVP	2.44223+02
		PLV	9.24993-01	FMV	1.27063+02	VDLV	1.27063+02	VLV	1.40150+02
		PAO	8.42305+01	FAV	0.00000	VDAO	-5.39750+01	VAO	1.05288+02
		PSC	5.11169+01	FAS	5.39750+01	VDSC	-2.70258+01	VSC	3.34098+03
T	2.88000+00	PVC	2.02204+00	FVS	8.09926+01	VDVC	-4.32402+01	VVC	5.05509+02
TT	8.79999-01	PRV	4.29311-01	FTV	1.24233+02	VDRV	1.24233+02	VRV	1.30094+02
		PAP	1.78214+01	FPV	0.00000	VDAP	-6.85997+01	VAP	1.33995+02
		PVP	8.02144+00	FPS	6.85997+01	VDVP	-5.74904+01	VVP	2.43074+02
		PLV	9.41701-01	FMV	1.26090+02	VDLV	1.26090+02	VLV	1.42682+02
		PAO	8.33770+01	FAV	0.00000	VDAO	-5.25992+01	VAO	1.04222+02
		PSC	5.11084+01	FAS	5.25992+01	VDSC	-2.83934+01	VSC	3.34042+03
T	2.90000+00	PVC	2.01861+00	FVS	8.09836+01	VDVC	-4.23450+01	VVC	5.04654+02
TT	8.99999-01	PRV	4.37478-01	FTV	1.23329+02	VDRV	1.23329+02	VRV	1.32569+02
		PAP	1.76404+01	FPV	0.00000	VDAP	-6.75974+01	VAP	1.32633+02
		PVP	7.92344+00	FPS	6.75974+01	VDVP	-5.75214+01	VVP	2.41924+02
		PLV	9.58221-01	FMV	1.25119+02	VDLV	1.25119+02	VLV	1.45194+02
		PAO	8.25471+01	FAV	0.00000	VDAO	-5.12595+01	VAO	1.03184+02
		PSC	5.10990+01	FAS	5.12595+01	VDSC	-2.97241+01	VSC	3.33984+03
T	2.92000+00	PVC	2.01521+00	FVS	8.09738+01	VDVC	-4.14507+01	VVC	5.03816+02
TT	9.19999-01	PRV	4.45586-01	FTV	1.22434+02	VDRV	1.22434+02	VRV	1.35027+02
		PAP	1.74518+01	FPV	0.00000	VDAP	-6.66137+01	VAP	1.31291+02
		PVP	7.94851+00	FPS	6.66137+01	VDVP	-5.75350+01	VVP	2.40773+02
		PLV	9.76731-01	FMV	1.24150+02	VDLV	1.24150+02	VLV	1.47687+02
		PAO	8.17371+01	FAV	0.00000	VDAO	-4.99549+01	VAO	1.02172+02
		PSC	5.10903+01	FAS	4.99549+01	VDSC	-3.10189+01	VSC	3.33923+03

T	2.94000+00	PVC	2.01198+00	FVS	8.09632+01	VDVC	-4.05873+01	VVC	5.02995+02
TT	9.39999-01	PRV	4.53541-01	FTV	1.21550+02	VDRV	1.21550+02	VRV	1.37467+02
		PAP	1.72859+01	FPV	0.00000	VDAP	-0.55482+01	VAP	1.29969+02
		PVP	7.90754+00	FPS	6.56482+01	VDVP	-5.75343+01	VVP	2.39622+02
		PLV	9.91056-01	FMV	1.23183+02	VDLV	1.23183+02	VLV	1.50160+02
		PAO	8.09134+01	FAV	0.00000	VDAO	-4.85345+01	VAO	1.01185+02
		PSC	5.10806+01	FAS	4.86845+01	VDSC	-3.22787+01	VSC	3.33860+03
T	2.96000+00	PVC	2.00877+00	FVS	8.09519+01	VDVC	-3.97245+01	VVC	5.02192+02
TT	9.59999-01	PRV	4.61634-01	FTV	1.20676+02	VDRV	1.20676+02	VRV	1.39889+02
		PAP	1.71124+01	FPV	0.00000	VDAP	-0.47005+01	VAP	1.28665+02
		PVP	7.86957+00	FPS	6.47005+01	VDVP	-5.75174+01	VVP	2.38472+02
		PLV	1.00724+00	FMV	1.22213+02	VDLV	1.22213+02	VLV	1.52614+02
		PAO	8.01793+01	FAV	0.00000	VDAO	-4.74474+01	VAO	1.00224+02
		PSC	5.10705+01	FAS	4.74474+01	VDSC	-3.35045+01	VSC	3.33794+03
T	2.98000+00	PVC	2.00562+00	FVS	8.09399+01	VDVC	-3.88723+01	VVC	5.01406+02
TT	9.79999-01	PRV	4.69573-01	FTV	1.19812+02	VDRV	1.19812+02	VRV	1.42294+02
		PAP	1.69416+01	FPV	0.00000	VDAP	-0.37701+01	VAP	1.27381+02
		PVP	7.83162+00	FPS	6.37701+01	VDVP	-5.74856+01	VVP	2.37322+02
		PLV	1.02332+00	FMV	1.21256+02	VDLV	1.21256+02	VLV	1.55049+02
		PAO	7.94294+01	FAV	0.00000	VDAO	-4.62428+01	VAO	9.92373+01
		PSC	5.10601+01	FAS	4.62428+01	VDSC	-3.45971+01	VSC	3.33726+03
T	3.00000+00	PVC	2.00255+00	FVS	8.09271+01	VDVC	-3.80306+01	VVC	5.00637+02
TT	0.00000	PRV	4.77450-01	FTV	1.18958+02	VDRV	1.18958+02	VRV	1.44682+02
		PAP	1.67732+01	FPV	0.00000	VDAP	-0.28567+01	VAP	1.26114+02
		PVP	7.79369+00	FPS	6.28567+01	VDVP	-5.74396+01	VVP	2.36172+02
		PLV	1.03926+00	FMV	1.20296+02	VDLV	1.20296+02	VLV	1.57464+02
		PAO	7.86994+01	FAV	0.00000	VDAO	-4.50697+01	VAO	9.83743+01
		PSC	5.10493+01	FAS	4.50697+01	VDSC	-3.58574+01	VSC	3.33656+03
T	3.02000+00	PVC	2.00689+00	FVS	8.09016+01	VDVC	8.09016+01	VVC	5.01722+02
TT	2.00000-02	PRV	3.86998+00	FTV	0.00000	VDRV	0.00000	VRV	1.45215+02
		PAP	1.66079+01	FPV	0.00000	VDAP	-0.14528+01	VAP	1.24871+02
		PVP	7.82857+00	FPS	6.14528+01	VDVP	0.14528+01	VVP	2.37239+02
		PLV	4.78126+01	FMV	0.00000	VDLV	0.00000	VLV	1.57642+02
		PAO	7.79875+01	FAV	0.00000	VDAO	-4.39274+01	VAO	9.74844+01
		PSC	5.10382+01	FAS	4.39274+01	VDSC	-3.59742+01	VSC	3.33583+03
T	3.04000+00	PVC	2.01334+00	FVS	8.08723+01	VDVC	8.08723+01	VVC	5.03340+02
TT	4.00000-02	PRV	7.26075+00	FTV	0.00000	VDRV	0.00000	VRV	1.45215+02
		PAP	1.64463+01	FPV	0.00000	VDAP	-0.00412+01	VAP	1.23650+02
		PVP	7.86897+00	FPS	6.00412+01	VDVP	0.00412+01	VVP	2.38453+02
		PLV	9.22278+01	FMV	0.00000	VDLV	-9.44187+02	VLV	1.53713+02
		PAO	8.04254+01	FAV	9.44187+02	VDAO	8.96267+02	VAO	1.00532+02
		PSC	5.10261+01	FAS	4.79199+01	VDSC	-3.29524+01	VSC	3.33509+03

T	3.06000+00	PVC	2.01983+00	FVS	8.08512+01	VDVC	8.08512+01	VVC	5.04957+02
TT	5.99999-02	PRV	1.08911+01	FTV	0.00000	VDRV	0.00000	VRV	1.45215+02
		PAP	1.62884+01	FPV	0.00000	VDAP	-5.86619+01	VAP	1.22469+02
		PVP	7.90914+00	FPS	5.86619+01	VDVP	5.86619+01	VVP	2.39640+02
		PLV	1.07124+02	FMV	0.00000	VDLV	-9.45070+02	VLV	1.35905+02
		PAO	9.53102+01	FAV	9.45070+02	VDAO	8.72876+02	VAO	1.19138+02
		PSC	5.10201+01	FAS	7.21921+01	VDSC	-3.55911+00	VSC	3.33468+03
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T	3.08000+00	PVC	2.02634+00	FVS	8.08414+01	VDVC	8.08414+01	VVC	5.06574+02
TT	7.99999-02	PRV	1.45215+01	FTV	0.00000	VDRV	0.00000	VRV	1.45215+02
		PAP	1.61342+01	FPV	0.00000	VDAP	-5.73143+01	VAP	1.21310+02
		PVP	7.94641+00	FPS	5.73143+01	VDVP	5.73143+01	VVP	2.40300+02
		PLV	1.16953+02	FMV	0.00000	VDLV	-7.52324+02	VLV	1.16953+02
		PAO	1.07544+02	FAV	7.52324+02	VDAO	6.50184+02	VAO	1.34436+02
		PSC	5.10211+01	FAS	9.21406+01	VDSC	1.12992+01	VSC	3.33471+03
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T	3.10000+00	PVC	2.03276+00	FVS	8.08396+01	VDVC	8.08396+01	VVC	5.08191+02
TT	9.99999-02	PRV	1.60231+01	FTV	0.00000	VDRV	-1.71369+02	VRV	1.44189+02
		PAP	1.61195+01	FPV	1.71369+02	VDAP	1.14426+02	VAP	1.21199+02
		PVP	7.98392+00	FPS	5.69469+01	VDVP	5.69469+01	VVP	2.41937+02
		PLV	1.19686+02	FMV	0.00000	VDLV	-4.20739+02	VLV	1.06368+02
		PAO	1.14427+02	FAV	4.20739+02	VDAO	3.17397+02	VAO	1.43033+02
		PSC	5.10265+01	FAS	1.03342+02	VDSC	2.25029+01	VSC	3.33506+03
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T	3.12000+00	PVC	2.03923+00	FVS	8.08422+01	VDVC	8.08422+01	VVC	5.09307+02
TT	1.20000-01	PRV	2.07902+01	FTV	0.00000	VDRV	-3.67499+02	VRV	1.38601+02
		PAP	1.67068+01	FPV	2.67499+02	VDAP	3.16710+02	VAP	1.25615+02
		PVP	8.02251+00	FPS	6.07897+01	VDVP	6.07897+01	VVP	2.43108+02
		PLV	1.23352+02	FMV	0.00000	VDLV	-3.57961+02	VLV	9.86818+01
		PAO	1.13875+02	FAV	3.57961+02	VDAO	2.47377+02	VAO	1.40597+02
		PSC	5.10345+01	FAS	1.10584+02	VDSC	2.97421+01	VSC	3.33559+03
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T	3.14000+00	PVC	2.04571+00	FVS	8.08476+01	VDVC	8.08476+01	VVC	5.11424+02
TT	1.40000-01	PRV	2.22151+01	FTV	0.00000	VDRV	-4.16140+02	VRV	1.30677+02
		PAP	1.75913+01	FPV	4.16140+02	VDAP	3.49453+02	VAP	1.32266+02
		PVP	8.06462+00	FPS	6.66871+01	VDVP	6.66871+01	VVP	2.44382+02
		PLV	1.23915+02	FMV	0.00000	VDLV	-2.17050+02	VLV	9.35211+01
		PAO	1.21202+02	FAV	2.17056+02	VDAO	1.02098+02	VAO	1.51503+02
		PSC	5.10443+01	FAS	1.14357+02	VDSC	3.35099+01	VSC	3.33623+03
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T	3.16000+00	PVC	2.05214+00	FVS	8.08545+01	VDVC	8.08545+01	VVC	5.13041+02
TT	1.60000-01	PRV	2.32247+01	FTV	0.00000	VDRV	-4.22662+02	VRV	1.22235+02
		PAP	1.85231+01	FPV	4.22662+02	VDAP	3.49736+02	VAP	1.39311+02
		PVP	8.11058+00	FPS	7.29243+01	VDVP	7.29243+01	VVP	2.45778+02
		PLV	1.25143+02	FMV	0.00000	VDLV	-1.98730+02	VLV	8.93882+01
		PAO	1.22654+02	FAV	1.98730+02	VDAO	8.29145+01	VAO	1.53324+02
		PSC	5.10549+01	FAS	1.16715+02	VDSC	3.36607+01	VSC	3.33692+03
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T	3.18000+00	PVC	2.05863+00	FVS	8.08622+01	VDVC	8.08622+01	VVC	5.14658+02

TT	1.80000-01	PRV	2.44031+01	FTV	0.00000	VDRV	-4.42394+02	VRV	1.13502+02
		PAP	1.94875+01	FPV	4.42394+02	VDAP	3.53100+02	VAP	1.46523+02
		PVP	8.16080+00	FPS	7.92863+01	VDVP	7.92863+01	VVP	2.47300+02
		PLV	1.25057+02	FMV	0.00000	VDLV	-1.40950+02	VLV	8.2464+01
		PAO	1.23295+02	FAV	1.40956+02	VDAO	2.32226+01	VAO	1.54119+02
		PSC	5.10660+01	FAS	1.17734+02	VDSC	3.55715+01	VSC	3.33765+03
T	3.20000+00	PVC	2.36511+00	FVS	8.08703+01	VDVC	8.08703+01	VVC	5.16270+02
TT	2.00000-01	PRV	2.51485+01	FTV	0.00000	VDRV	-4.24395+02	VRV	1.04780+02
		PAP	2.04275+01	FPV	4.24895+02	VDAP	3.39409+02	VAP	1.53591+02
		PVP	8.21526+00	FPS	8.54857+01	VDVP	8.54857+01	VVP	2.48948+02
		PLV	1.25265+02	FMV	0.00000	VDLV	-1.33514+02	VLV	8.35103+01
		PAO	1.23596+02	FAV	1.33514+02	VDAO	1.55682+01	VAO	1.54496+02
		PSC	5.10775+01	FAS	1.18206+02	VDSC	3.73356+01	VSC	3.33639+03
T	3.22000+00	PVC	2.67157+00	FVS	8.08786+01	VDVC	8.08786+01	VVC	5.17893+02
TT	2.20000-01	PRV	2.59924+01	FTV	0.00000	VDRV	-4.20050+02	VRV	9.62684+01
		PAP	2.13251+01	FPV	4.20058+02	VDAP	3.23690+02	VAP	1.60339+02
		PVP	8.27367+00	FPS	9.13602+01	VDVP	9.13602+01	VVP	2.50717+02
		PLV	1.25391+02	FMV	0.00000	VDLV	-1.27872+02	VLV	8.68975+01
		PAO	1.23793+02	FAV	1.27872+02	VDAO	9.38470+00	VAO	1.54741+02
		PSC	5.10889+01	FAS	1.18507+02	VDSC	3.76287+01	VSC	3.33914+03
T	3.24000+00	PVC	2.07804+00	FVS	8.08869+01	VDVC	8.08869+01	VVC	5.19511+02
TT	2.40000-01	PRV	2.64506+01	FTV	0.00000	VDRV	-3.36913+02	VRV	8.61699+01
		PAP	2.21510+01	FPV	3.86913+02	VDAP	2.90200+02	VAP	1.66556+02
		PVP	8.33577+00	FPS	9.67130+01	VDVP	9.67130+01	VVP	2.52599+02
		PLV	1.25430+02	FMV	0.00000	VDLV	-1.22575+02	VLV	7.63939+01
		PAO	1.23892+02	FAV	1.22575+02	VDAO	3.91441+00	VAO	1.54873+02
		PSC	5.11004+01	FAS	1.18660+02	VDSC	3.77735+01	VSC	3.33990+03
T	3.26000+00	PVC	2.08451+00	FVS	8.08950+01	VDVC	8.08950+01	VVC	5.21129+02
TT	2.60000-01	PRV	2.66820+01	FTV	0.00000	VDRV	-3.43903+02	VRV	8.08558+01
		PAP	2.28612+01	FPV	3.43903+02	VDAP	2.42682+02	VAP	1.71089+02
		PVP	8.40118+00	FPS	1.01221+02	VDVP	1.01221+02	VVP	2.54580+02
		PLV	1.23492+02	FMV	0.00000	VDLV	-4.10490+01	VLV	7.71824+01
		PAO	1.22979+02	FAV	4.10490+01	VDAO	-7.00941+01	VAO	1.53723+02
		PSC	5.11110+01	FAS	1.17143+02	VDSC	3.62480+01	VSC	3.34064+03
T	3.28000+00	PVC	2.09090+00	FVS	8.09021+01	VDVC	8.09021+01	VVC	5.22747+02
TT	2.80000-01	PRV	2.67883+01	FTV	0.00000	VDRV	-3.50985+02	VRV	7.44120+01
		PAP	2.30440+01	FPV	3.00985+02	VDAP	1.96101+02	VAP	1.76271+02
		PVP	8.46910+00	FPS	1.04824+02	VDVP	1.04824+02	VVP	2.56642+02
		PLV	1.22233+02	FMV	0.00000	VDLV	-3.85913+01	VLV	7.63953+01
		PAO	1.21750+02	FAV	3.85913+01	VDAO	-7.65517+01	VAO	1.52188+02
		PSC	5.11226+01	FAS	1.15123+02	VDSC	3.42209+01	VSC	3.34134+03
T	3.30000+00	PVC	2.09700+00	FVS	8.09080+01	VDVC	8.09080+01	VVC	5.24365+02
TT	3.00000-01	PRV	2.63200+01	FTV	0.00000	VDRV	-2.22515+02	VRV	8.92633+01

		PAP	2.38465+01	FPV	2.22615+02	VLAP	1.15464+02	VAP	1.79297+02
		PVP	3.53922+00	FPS	1.07151+02	VDVP	1.37151+02	VVP	2.58764+02
		PLV	1.13314+02	FMV	0.00000	VDLV	0.00000	VLV	7.63316+01
		PAO	1.19932+02	FAV	0.00000	VDAO	-1.12224+02	VAO	1.49977+02
		PSC	5.11328+01	FAS	1.12224+02	VDSC	3.13184+01	VSC	3.34200+03
T	3.32000+00	PVC	2.19393+00	FVS	8.09124+01	VDVC	8.09124+01	VVC	5.25983+02
TT	3.20000-01	PRV	2.61061+01	FTV	0.00000	VDRV	-1.81316+02	VRV	6.52653+01
		PAP	2.40915+01	FPV	1.81318+02	VDAP	7.29506+01	VAP	1.81139+02
		PVP	3.61033+00	FPS	1.08368+02	VDVP	1.06368+02	VVP	2.60921+02
		PLV	1.18497+02	FMV	0.00000	VDLV	0.00000	VLV	7.63316+01
		PAO	1.18217+02	FAV	0.00000	VDAO	-1.09321+02	VAO	1.47762+02
		PSC	5.11417+01	FAS	1.09321+02	VDSC	2.34083+01	VSC	3.34260+03
T	3.34000+00	PVC	2.11040+00	FVS	8.09153+01	VDVC	8.09153+01	VVC	5.27601+02
TT	3.40000-01	PRV	2.25351+01	FTV	0.00000	VDRV	0.00000	VRV	6.43858+01
		PAP	2.39217+01	FPV	0.00000	VDAP	-1.06681+02	VAP	1.79862+02
		PVP	8.68152+00	FPS	1.06681+02	VDVP	1.06681+02	VVP	2.63076+02
		PLV	9.54143+01	FMV	0.00000	VDLV	0.00000	VLV	7.63316+01
		PAO	1.16483+02	FAV	0.00000	VDAO	-1.06493+02	VAO	1.45604+02
		PSC	5.11508+01	FAS	1.06493+02	VDSC	2.55779+01	VSC	3.34314+03
T	3.36000+00	PVC	2.11688+00	FVS	8.09169+01	VDVC	8.09169+01	VVC	5.29219+02
TT	3.60000-01	PRV	1.93158+01	FTV	0.00000	VDRV	0.00000	VRV	6.43858+01
		PAP	2.36412+01	FPV	0.00000	VDAP	-1.04231+02	VAP	1.77753+02
		PVP	8.75112+00	FPS	1.04231+02	VDVP	1.04231+02	VVP	2.65185+02
		PLV	7.83319+01	FMV	0.00000	VDLV	0.00000	VLV	7.63316+01
		PAO	1.14301+02	FAV	0.00000	VDAO	-1.03740+02	VAO	1.43502+02
		PSC	5.11574+01	FAS	1.03740+02	VDSC	2.28230+01	VSC	3.34362+03
T	3.38000+00	PVC	2.12335+00	FVS	8.09170+01	VDVC	8.09170+01	VVC	5.30338+02
TT	3.80000-01	PRV	9.76427+00	FTV	0.00000	VDRV	0.00000	VRV	6.43858+01
		PAP	2.33675+01	FPV	0.00000	VDAP	-1.01836+02	VAP	1.75693+02
		PVP	8.81912+00	FPS	1.01836+02	VDVP	1.01836+02	VVP	2.67246+02
		PLV	3.84188+01	FMV	0.00000	VDLV	0.00000	VLV	7.63316+01
		PAO	1.13163+02	FAV	0.00000	VDAO	-1.01059+02	VAO	1.41454+02
		PSC	5.11643+01	FAS	1.01059+02	VDSC	2.01417+01	VSC	3.34405+03
T	3.40000+00	PVC	2.12362+00	FVS	8.09178+01	VDVC	8.09178+01	VVC	5.32158+02
TT	4.00000-01	PRV	2.13647+01	FTV	1.49368+02	VDRV	1.49368+02	VRV	6.48660+01
		PAP	2.30990+01	FPV	0.00000	VDAP	-9.95723+01	VAP	1.73680+02
		PVP	8.87478+00	FPS	9.95723+01	VDVP	-4.94634+01	VVP	2.66932+02
		PLV	5.06671+01	FMV	1.49036+02	VDLV	1.49036+02	VLV	7.66587+01
		PAO	1.11567+02	FAV	0.00000	VDAO	-9.84479+01	VAO	1.39459+02
		PSC	5.11697+01	FAS	9.84479+01	VDSC	1.75301+01	VSC	3.34443+03
T	3.42000+00	PVC	2.12310+00	FVS	8.09350+01	VDVC	8.09350+01	VVC	5.30799+02
TT	4.20000-01	PRV	2.23288+01	FTV	1.48193+02	VDRV	1.48193+02	VRV	6.76617+01
		PAP	2.25387+01	FPV	0.00000	VDAP	-9.73635+01	VAP	1.71704+02

		PVP	8.64180+00	FPS	9.79635+01	VDVP	-5.01503+01	VVP	2.67936+02
		PLV	5.25567-01	FMV	1.48114+02	VDLV	1.48114+02	VLV	7.96304+01
		PAO	1.10013+02	FAV	0.00000	VDAP	-9.59056+01	VAO	1.37510+02
		PSC	5.11747+01	FAS	9.59056+01	VDSC	1.49707+01	VSC	3.34475+03
T	3.44000+00	PVC	2.11780+00	FVS	8.09507+01	VDVC	-6.60665+01	VVC	5.29465+02
TT	4.40000-01	PRV	2.33025-01	FTV	1.47017+02	VDRV	1.47017+02	VRV	7.06138+01
		PAP	2.25780+01	FPV	0.00000	VDAP	-9.83375+01	VAP	1.69761+02
		PVP	8.60857+00	FPS	9.63873+01	VDVP	-5.07861+01	VVP	2.60920+02
		PLV	5.45040-01	FMV	1.47173+02	VDLV	1.47173+02	VLV	8.25632+01
		PAO	1.08490+02	FAV	0.00000	VDAP	-9.34300+01	VAO	1.35622+02
		PSC	5.11780+01	FAS	9.34300+01	VDSC	1.24795+01	VSC	3.34503+03
T	3.46000+00	PVC	2.11262+00	FVS	8.09650+01	VDVC	-6.48395+01	VVC	5.28156+02
TT	4.60000-01	PRV	2.42690-01	FTV	1.45855+02	VDRV	1.45855+02	VRV	7.35425+01
		PAP	2.23230+01	FPV	0.00000	VDAP	-9.48430+01	VAP	1.67649+02
		PVP	8.77486+00	FPS	9.48430+01	VDVP	-5.13849+01	VVP	2.65905+02
		PLV	5.64414-01	FMV	1.46223+02	VDLV	1.46223+02	VLV	8.55173+01
		PAO	1.07022+02	FAV	0.00000	VDAP	-9.10193+01	VAO	1.33778+02
		PSC	5.11823+01	FAS	9.10193+01	VDSC	1.00543+01	VSC	3.34525+03
T	3.48000+00	PVC	2.10748+00	FVS	8.09780+01	VDVC	-6.37270+01	VVC	5.26870+02
TT	4.80000-01	PRV	2.52279-01	FTV	1.44706+02	VDRV	1.44706+02	VRV	7.64481+01
		PAP	2.20730+01	FPV	0.00000	VDAP	-9.33299+01	VAP	1.65967+02
		PVP	8.74075+00	FPS	9.33299+01	VDVP	-5.19481+01	VVP	2.64871+02
		PLV	5.83653-01	FMV	1.45278+02	VDLV	1.45278+02	VLV	8.64325+01
		PAO	1.05535+02	FAV	0.00000	VDAP	-8.86719+01	VAO	1.31981+02
		PSC	5.11851+01	FAS	8.86719+01	VDSC	7.69385+00	VSC	3.34543+03
T	3.50000+00	PVC	2.10243+00	FVS	8.09896+01	VDVC	-6.25799+01	VVC	5.25607+02
TT	5.00000-01	PRV	2.61792-01	FTV	1.43570+02	VDRV	1.43570+02	VRV	7.93308+01
		PAP	2.18273+01	FPV	0.00000	VDAP	-9.18472+01	VAP	1.64115+02
		PVP	8.70629+00	FPS	9.18472+01	VDVP	-5.24760+01	VVP	2.63827+02
		PLV	6.02767-01	FMV	1.44324+02	VDLV	1.44324+02	VLV	9.13283+01
		PAO	1.04185+02	FAV	0.00000	VDAP	-8.63860+01	VAO	1.30231+02
		PSC	5.11871+01	FAS	8.63860+01	VDSC	5.39634+00	VSC	3.34556+03
T	3.52000+00	PVC	2.09747+00	FVS	8.10000+01	VDVC	-6.14464+01	VVC	5.24366+02
TT	5.20000-01	PRV	2.71230-01	FTV	1.42446+02	VDRV	1.42446+02	VRV	8.21909+01
		PAP	2.15849+01	FPV	0.00000	VDAP	-9.03942+01	VAP	1.62293+02
		PVP	8.67149+00	FPS	9.03942+01	VDVP	-5.29717+01	VVP	2.62773+02
		PLV	6.21755-01	FMV	1.43366+02	VDLV	1.43366+02	VLV	9.42052+01
		PAO	1.02820+02	FAV	0.00000	VDAP	-8.41601+01	VAO	1.28525+02
		PSC	5.11884+01	FAS	8.41601+01	VDSC	5.16000+00	VSC	3.34564+03
T	3.54000+00	PVC	2.09260+00	FVS	8.10091+01	VDVC	-6.03270+01	VVC	5.23149+02
TT	5.39999-01	PRV	2.80595-01	FTV	1.41336+02	VDRV	1.41336+02	VRV	8.50287+01
		PAP	2.13464+01	FPV	0.00000	VDAP	-8.89701+01	VAP	1.60499+02
		PVP	8.63638+00	FPS	8.89701+01	VDVP	-5.34344+01	VVP	2.61706+02

		PLV	6.40615-01	FMV	1.42405+02	VOLV	1.42405+02	VLV	9.70629+01
		PAO	1.01491+02	FAV	0.00000	VDAU	-8.19925+01	VAO	1.26864+02
		PSC	5.11398+01	FAS	8.19925+01	VOSC	9.83471-01	VSC	3.34569+03
T	3.56000+00	PVC	2.08781+00	FVS	8.10169+01	VDVC	-5.92214+01	VVC	5.21953+02
TT	5.59999-01	PRV	2.09387-01	FTV	1.40233+02	VDRV	1.40230+02	VRV	8.78444+01
		PAP	2.11110+01	FPV	0.00000	VDAP	-8.75744+01	VAP	1.58734+02
		PVP	8.50097+00	FPS	8.75744+01	VDVP	-5.36550+01	VVP	2.00635+02
		PLV	6.59349-01	FMV	1.41440+02	VOLV	1.41440+02	VLV	9.99014+01
		PAO	1.00197+02	FAV	0.00000	VDAU	-7.93819+01	VAO	1.25245+02
		PSC	5.11398+01	FAS	7.98619+01	VOSC	-1.13500+00	VSC	3.34568+03
T	3.58000+00	PVC	2.08312+00	FVS	8.10236+01	VDVC	-5.81295+01	VVC	5.20780+02
TT	5.79999-01	PRV	2.09100-01	FTV	1.39153+02	VDRV	1.39153+02	VRV	9.06383+01
		PAP	2.08305+01	FPV	0.00000	VDAP	-8.62064+01	VAP	1.56990+02
		PVP	8.56520+00	FPS	8.62064+01	VDVP	-5.42509+01	VVP	2.59554+02
		PLV	6.77955-01	FMV	1.40473+02	VOLV	1.40473+02	VLV	1.02721+02
		PAO	9.89347+01	FAV	0.00000	VDAU	-7.73265+01	VAO	1.25068+02
		PSC	5.11883+01	FAS	7.78265+01	VOSC	-5.19702+00	VSC	3.34564+03
T	3.60000+00	PVC	2.07851+00	FVS	8.10290+01	VDVC	-5.70510+01	VVC	5.19628+02
TT	5.99999-01	PRV	3.08255-01	FTV	1.38080+02	VDRV	1.38080+02	VRV	9.34100+01
		PAP	2.06531+01	FPV	0.00000	VDAP	-8.48653+01	VAP	1.55285+02
		PVP	8.52930+00	FPS	8.48653+01	VDVP	-5.46387+01	VVP	2.58465+02
		PLV	6.96436-01	FMV	1.39504+02	VOLV	1.39504+02	VLV	1.05520+02
		PAO	9.77058+01	FAV	0.00000	VDAU	-7.58251+01	VAO	1.22132+02
		PSC	5.11871+01	FAS	7.58251+01	VOSC	-5.20390+00	VSC	3.34556+03
T	3.62000+00	PVC	2.07399+00	FVS	8.10334+01	VDVC	-5.59859+01	VVC	5.18498+02
TT	6.19999-01	PRV	3.17333-01	FTV	1.37019+02	VDRV	1.37019+02	VRV	9.61616+01
		PAP	2.04291+01	FPV	0.00000	VDAP	-8.35507+01	VAP	1.53601+02
		PVP	8.49313+00	FPS	8.35507+01	VDVP	-5.49023+01	VVP	2.57369+02
		PLV	7.14702-01	FMV	1.36533+02	VOLV	1.36533+02	VLV	1.08301+02
		PAO	9.65088+01	FAV	0.00000	VDAU	-7.38762+01	VAO	1.20635+02
		PSC	5.11351+01	FAS	7.38762+01	VOSC	-7.15715+00	VSC	3.34543+03
T	3.64000+00	PVC	2.06955+00	FVS	8.10366+01	VDVC	-5.49340+01	VVC	5.17389+02
TT	6.39999-01	PRV	3.26345-01	FTV	1.35971+02	VDRV	1.35971+02	VRV	9.68915+01
		PAP	2.02084+01	FPV	0.00000	VDAP	-8.22617+01	VAP	1.51943+02
		PVP	8.45677+00	FPS	8.22617+01	VDVP	-5.52985+01	VVP	2.56266+02
		PLV	7.33007-01	FMV	1.37560+02	VOLV	1.37560+02	VLV	1.11062+02
		PAO	9.53412+01	FAV	0.00000	VDAU	-7.19784+01	VAO	1.19177+02
		PSC	5.11827+01	FAS	7.19784+01	VOSC	-9.05810+00	VSC	3.34527+03
T	3.66000+00	PVC	2.06552+00	FVS	8.10387+01	VDVC	-5.58950+01	VVC	5.16300+02
TT	6.59999-01	PRV	3.35282-01	FTV	1.34934+02	VDRV	1.34934+02	VRV	1.01601+02
		PAP	1.99913+01	FPV	0.00000	VDAP	-8.09980+01	VAP	1.50311+02
		PVP	8.42018+00	FPS	8.09980+01	VDVP	-5.55583+01	VVP	2.55157+02
		PLV	7.51106-01	FMV	1.36586+02	VOLV	1.36586+02	VLV	1.13803+02

		PAO	9.42044+01	FAV	0.00000	VDPO	-7.01304+01	VAO	1.17755+02
		PSC	5.11795+01	FAS	7.01304+01	VDSC	-1.09985+01	VSC	3.34507+03
T	3.68000+00	PVC	2.06093+00	FVS	8.10398+01	VDVC	-5.28080+01	VVC	5.15233+02
TT	6.79999-01	PRV	3.44153-01	FTV	1.33909+02	VDRV	1.33909+02	VRV	1.04289+02
		PAP	1.97771+01	FPV	0.00000	VDAP	-7.97580+01	VAP	1.48703+02
		PVP	4.38345+00	FPS	7.97588+01	VDVP	-5.38525+01	VVP	2.54042+02
		PLV	7.69365-01	FMV	1.35611+02	VDLV	1.35611+02	VLV	1.16525+02
		PAO	9.30961+01	FAV	0.00000	VDPO	-6.83309+01	VAO	1.16571+02
		PSC	5.11761+01	FAS	6.83309+01	VDSC	-1.27089+01	VSC	3.34484+03
T	3.70000+00	PVC	2.05674+00	FVS	8.10399+01	VDVC	-5.18553+01	VVC	5.14180+02
TT	6.99999-01	PRV	3.52255-01	FTV	1.32895+02	VDRV	1.32895+02	VRV	1.06957+02
		PAP	1.95671+01	FPV	0.00000	VDAP	-7.85437+01	VAP	1.47120+02
		PVP	8.34844+00	FPS	7.85437+01	VDVP	-5.88920+01	VVP	2.52923+02
		PLV	7.86901-01	FMV	1.34836+02	VDLV	1.34836+02	VLV	1.19227+02
		PAO	9.20175+01	FAV	0.00000	VDPO	-6.85578+01	VAO	1.15022+02
		PSC	5.11718+01	FAS	6.65786+01	VDSC	-1.44613+01	VSC	3.34450+03
T	3.72000+00	PVC	2.05263+00	FVS	8.10389+01	VDVC	-5.08542+01	VVC	5.13158+02
TT	7.19999-01	PRV	3.61696-01	FTV	1.31893+02	VDRV	1.31893+02	VRV	1.09605+02
		PAP	1.93596+01	FPV	0.00000	VDAP	-7.73520+01	VAP	1.45561+02
		PVP	8.30936+00	FPS	7.73520+01	VDVP	-5.63077+01	VVP	2.51799+02
		PLV	8.04606-01	FMV	1.33660+02	VDLV	1.33660+02	VLV	1.21910+02
		PAO	9.09661+01	FAV	0.00000	VDPO	-6.48722+01	VAO	1.13708+02
		PSC	5.11671+01	FAS	6.48722+01	VDSC	-1.01667+01	VSC	3.34426+03
T	3.74000+00	PVC	2.04861+00	FVS	8.10370+01	VDVC	-4.98055+01	VVC	5.12151+02
TT	7.39999-01	PRV	3.70368-01	FTV	1.30902+02	VDRV	1.30902+02	VRV	1.12233+02
		PAP	1.91554+01	FPV	0.00000	VDAP	-7.61832+01	VAP	1.44020+02
		PVP	8.27214+00	FPS	7.61832+01	VDVP	-5.65004+01	VVP	2.50671+02
		PLV	8.22187-01	FMV	1.32684+02	VDLV	1.32684+02	VLV	1.24574+02
		PAO	8.99414+01	FAV	0.00000	VDPO	-6.32106+01	VAO	1.12427+02
		PSC	5.11619+01	FAS	6.32106+01	VDSC	-1.78204+01	VSC	3.34392+03
T	3.76000+00	PVC	2.04466+00	FVS	8.10341+01	VDVC	-4.88389+01	VVC	5.11164+02
TT	7.59999-01	PRV	3.73975-01	FTV	1.29923+02	VDRV	1.29923+02	VRV	1.14841+02
		PAP	1.89543+01	FPV	0.00000	VDAP	-7.50360+01	VAP	1.42514+02
		PVP	8.23479+00	FPS	7.50368+01	VDVP	-5.66708+01	VVP	2.49539+02
		PLV	8.39637-01	FMV	1.31708+02	VDLV	1.31708+02	VLV	1.27216+02
		PAO	8.89431+01	FAV	0.00000	VDPO	-6.15925+01	VAO	1.11179+02
		PSC	5.11562+01	FAS	6.15925+01	VDSC	-1.94416+01	VSC	3.34354+03
T	3.78000+00	PVC	2.04078+00	FVS	8.10303+01	VDVC	-4.79244+01	VVC	5.10196+02
TT	7.79999-01	PRV	3.87518-01	FTV	1.28955+02	VDRV	1.28955+02	VRV	1.17430+02
		PAP	1.87562+01	FPV	0.00000	VDAP	-7.39123+01	VAP	1.41024+02
		PVP	8.19734+00	FPS	7.39123+01	VDVP	-5.63198+01	VVP	2.48404+02
		PLV	8.56958-01	FMV	1.30732+02	VDLV	1.30732+02	VLV	1.29842+02
		PAO	8.79702+01	FAV	0.00000	VDPO	-6.00169+01	VAO	1.09963+02

		PSC	5.11500+01	FAS	6.00169+01	VDSC	-2.10134+01	VSC	3.34314+03
T	3.80000+00	PVC	2.03690+00	FVS	6.10255+01	VDVC	-4.09716+01	VVC	5.09247+02
TT	7.99999-01	PRV	3.95997-01	FTV	1.27997+02	VDRV	1.27997+02	VRV	1.19999+02
		PAP	1.85611+01	FPV	0.00000	VDAP	-7.28092+01	VAP	1.39557+02
		PVP	8.15970+00	FPS	7.28092+01	VDVP	-5.59481+01	VVP	2.47266+02
		PLV	8.74151-01	FMV	1.29757+02	VDLV	1.29757+02	VLV	1.32447+02
		PAO	8.70223+01	FAV	0.00000	VDAO	-5.84820+01	VAO	1.08778+02
		PSC	5.11431+01	FAS	5.84820+01	VDSC	-2.25429+01	VSC	3.34270+03
T	3.82000+00	PVC	2.03327+00	FVS	6.10199+01	VDVC	-4.00506+01	VVC	5.08317+02
TT	8.19999-01	PRV	4.04411-01	FTV	1.27051+02	VDRV	1.27051+02	VRV	1.22550+02
		PAP	1.83689+01	FPV	0.00000	VDAP	-7.17209+01	VAP	1.38112+02
		PVP	8.12217+00	FPS	7.17269+01	VDVP	-5.70564+01	VVP	2.40120+02
		PLV	8.91211-01	FMV	1.28783+02	VDLV	1.28783+02	VLV	1.35032+02
		PAO	8.60980+01	FAV	0.00000	VDAO	-5.69380+01	VAO	1.07023+02
		PSC	5.11362+01	FAS	5.69886+01	VDSC	-2.40515+01	VSC	3.34224+03
T	3.84000+00	PVC	2.02962+00	FVS	6.10134+01	VDVC	-4.51011+01	VVC	5.07405+02
TT	3.39999-01	PRV	4.12762-01	FTV	1.26115+02	VDRV	1.26115+02	VRV	1.25081+02
		PAP	1.81795+01	FPV	0.00000	VDAP	-7.10551+01	VAP	1.36086+02
		PVP	8.08440+00	FPS	7.06651+01	VDVP	-5.71454+01	VVP	2.44984+02
		PLV	9.08149-01	FMV	1.27810+02	VDLV	1.27810+02	VLV	1.37590+02
		PAO	8.51985+01	FAV	0.00000	VDAO	-5.55337+01	VAO	1.06498+02
		PSC	5.11287+01	FAS	5.55337+01	VDSC	-2.54797+01	VSC	3.34174+03
T	3.86000+00	PVC	2.02605+00	FVS	6.10061+01	VDVC	-4.41851+01	VVC	5.06513+02
TT	8.59999-01	PRV	4.21061-01	FTV	1.25189+02	VDRV	1.25189+02	VRV	1.27594+02
		PAP	1.79929+01	FPV	0.00000	VDAP	-6.96232+01	VAP	1.35285+02
		PVP	8.04674+00	FPS	6.96232+01	VDVP	-5.72158+01	VVP	2.43841+02
		PLV	9.24958-01	FMV	1.26839+02	VDLV	1.26839+02	VLV	1.40145+02
		PAO	8.43213+01	FAV	0.00000	VDAO	-5.41170+01	VAO	1.05402+02
		PSC	5.11207+01	FAS	5.41170+01	VDSC	-2.66391+01	VSC	3.34122+03
T	3.88000+00	PVC	2.02255+00	FVS	6.09980+01	VDVC	-4.32762+01	VVC	5.05638+02
TT	8.79999-01	PRV	4.29293-01	FTV	1.24274+02	VDRV	1.24274+02	VRV	1.30089+02
		PAP	1.78091+01	FPV	0.00000	VDAP	-6.86009+01	VAP	1.33903+02
		PVP	8.00391+00	FPS	6.86009+01	VDVP	-5.72582+01	VVP	2.42090+02
		PLV	9.41635-01	FMV	1.25869+02	VDLV	1.25869+02	VLV	1.42072+02
		PAO	8.38665+01	FAV	0.00000	VDAO	-5.27375+01	VAO	1.04333+02
		PSC	5.11122+01	FAS	5.27375+01	VDSC	-2.82005+01	VSC	3.34067+03
T	3.90000+00	PVC	2.01913+00	FVS	6.09890+01	VDVC	-4.23805+01	VVC	5.04781+02
TT	8.99999-01	PRV	4.37482-01	FTV	1.23370+02	VDRV	1.23370+02	VRV	1.32565+02
		PAP	1.76279+01	FPV	0.00000	VDAP	-6.75970+01	VAP	1.32541+02
		PVP	7.97115+00	FPS	6.75976+01	VDVP	-5.73034+01	VVP	2.41550+02
		PLV	9.52115-01	FMV	1.24901+02	VDLV	1.24901+02	VLV	1.45180+02
		PAO	8.26335+01	FAV	0.00000	VDAO	-5.13941+01	VAO	1.03292+02
		PSC	5.11034+01	FAS	5.13941+01	VDSC	-2.95049+01	VSC	3.24009+03

T	3.92000+00	PVC	2.01577+00	FVS	8.09793+01	VDVC	-4.14950+01	VVC	5.03943+02
TT	9.19999-01	PRV	4.45571-01	FTV	1.22475+02	VDRV	1.22475+02	VRV	1.35024+02
		PAP	1.74491+01	FPV	0.00000	VDAP	-0.66129+01	VAP	1.31199+02
		PVP	7.93332+00	FPS	0.66129+01	VDVP	-5.73210+01	VVP	2.40404+02
		PLV	9.74600-01	FMV	1.23935+02	VDLV	1.23935+02	VLV	1.47668+02
		PAO	8.18217+01	FAV	0.00000	VDAO	-5.00800+01	VAO	1.02277+02
		PSC	5.10241+01	FAS	5.00860+01	VDSC	-3.08933+01	VSC	3.33948+03
T	3.94000+00	PVC	2.01240+00	FVS	8.09688+01	VDVC	-4.06210+01	VVC	5.03122+02
TT	9.39999-01	PRV	4.53632-01	FTV	1.21591+02	VDRV	1.21591+02	VRV	1.37464+02
		PAP	1.72735+01	FPV	0.00000	VDAP	-0.50464+01	VAP	1.29870+02
		PVP	7.89540+00	FPS	0.56464+01	VDVP	-5.73243+01	VVP	2.39257+02
		PLV	9.50900-01	FMV	1.22971+02	VDLV	1.22971+02	VLV	1.50137+02
		PAO	8.10300+01	FAV	0.00000	VDAO	-4.08122+01	VAO	1.01288+02
		PSC	5.10845+01	FAS	4.88122+01	VDSC	-3.21500+01	VSC	3.33885+03
T	3.96000+00	PVC	2.00927+00	FVS	8.09575+01	VDVC	-3.97586+01	VVC	5.02318+02
TT	9.59999-01	PRV	4.61620-01	FTV	1.20716+02	VDRV	1.20716+02	VRV	1.39887+02
		PAP	1.71002+01	FPV	0.00000	VDAP	-0.40970+01	VAP	1.28573+02
		PVP	7.85766+00	FPS	0.40978+01	VDVP	-5.73112+01	VVP	2.38111+02
		PLV	1.00707+00	FMV	1.22009+02	VDLV	1.22009+02	VLV	1.52587+02
		PAO	8.02595+01	FAV	0.00000	VDAO	-4.75717+01	VAO	1.00324+02
		PSC	5.10740+01	FAS	4.75717+01	VDSC	-3.33856+01	VSC	3.33820+03
T	3.98000+00	PVC	2.00612+00	FVS	8.09456+01	VDVC	-3.89059+01	VVC	5.01531+02
TT	9.79999-01	PRV	4.69567-01	FTV	1.19851+02	VDRV	1.19851+02	VRV	1.42293+02
		PAP	1.69293+01	FPV	0.00000	VDAP	-0.57665+01	VAP	1.27288+02
		PVP	7.81980+00	FPS	0.37665+01	VDVP	-5.72532+01	VVP	2.36965+02
		PLV	1.02311+00	FMV	1.21050+02	VDLV	1.21050+02	VLV	1.55017+02
		PAO	7.95061+01	FAV	0.00000	VDAO	-4.63330+01	VAO	9.93851+01
		PSC	5.10640+01	FAS	4.63638+01	VDSC	-3.45817+01	VSC	3.33752+03
T	4.00000+00	PVC	2.00305+00	FVS	8.09320+01	VDVC	-3.80637+01	VVC	5.00762+02
TT	0.00000	PRV	4.77440-01	FTV	1.18997+02	VDRV	1.18997+02	VRV	1.44682+02
		PAP	1.67609+01	FPV	0.00000	VDAP	-0.28523+01	VAP	1.26022+02
		PVP	7.78205+00	FPS	0.28523+01	VDVP	-5.72409+01	VVP	2.35820+02
		PLV	1.03903+00	FMV	1.20093+02	VDLV	1.20093+02	VLV	1.57429+02
		PAO	7.87757+01	FAV	0.00000	VDAO	-4.51570+01	VAO	9.84697+01
		PSC	5.10533+01	FAS	4.51876+01	VDSC	-3.57453+01	VSC	3.33682+03
T	4.02000+00	PVC	2.00738+00	FVS	8.09074+01	VDVC	8.09074+01	VVC	5.01846+02
TT	2.00000-02	PRV	3.96493+00	FTV	0.00000	VDRV	0.00000	VRV	1.45215+02
		PAP	1.65950+01	FPV	0.00000	VDAP	-0.14484+01	VAP	1.24779+02
		PVP	7.51725+00	FPS	0.14484+01	VDVP	0.14484+01	VVP	2.36886+02
		PLV	4.78017+01	FMV	0.00000	VDLV	0.00000	VLV	1.57606+02
		PAO	7.80610+01	FAV	0.00000	VDAO	-4.40422+01	VAO	9.75774+01
		PSC	5.10422+01	FAS	4.40422+01	VDSC	-3.66052+01	VSC	3.33609+03

T	4.04000+00	PVC	2.01386+00	FVS	8.08782+01	VDVC	8.03782+01	VVC	5.03464+02
TT	4.00000-02	PRV	7.26076+00	FTV	0.00000	VDRV	0.00000	VRV	1.45215+02
		PAP	1.64346+01	FPV	0.00000	VDAP	-6.00368+01	VAP	1.23564+02
		PVP	7.85733+00	FPS	6.00368+01	VDVP	0.00368+01	VVP	2.38101+02
		PLV	9.22287+01	FMV	0.00000	VDLV	-9.40810+02	VLV	1.53715+02
		PAO	8.04685+01	FAV	9.40813+02	VDAO	8.92635+02	VAO	1.00580+02
		PSC	5.10306+01	FAS	4.79832+01	VDSC	-3.28949+01	VSC	3.33535+03

T	4.06000+00	PVC	2.02033+00	FVS	8.08571+01	VDVC	8.08571+01	VVC	5.05081+02
TT	5.99999-02	PRV	1.48211+01	FTV	0.00000	VDRV	0.00000	VRV	1.45215+02
		PAP	1.62762+01	FPV	0.00000	VDAP	-5.66570+01	VAP	1.22377+02
		PVP	7.39650+00	FPS	5.86576+01	VDVP	5.86570+01	VVP	2.39288+02
		PLV	1.07148+02	FMV	0.00000	VDLV	-9.44915+02	VLV	1.33930+02
		PAO	9.53326+01	FAV	9.44913+02	VDAO	8.72690+02	VAO	1.19166+02
		PSC	5.10246+01	FAS	7.22224+01	VDSC	-0.63466+00	VSC	3.33494+03

T	4.08000+00	PVC	2.02670+00	FVS	8.08473+01	VDVC	8.08473+01	VVC	5.06698+02
TT	7.99999-02	PRV	1.45215+01	FTV	0.00000	VDRV	0.00000	VRV	1.45215+02
		PAP	1.61215+01	FPV	0.00000	VDAP	-5.73101+01	VAP	1.21216+02
		PVP	7.93477+00	FPS	5.73101+01	VDVP	5.73101+01	VVP	2.40448+02
		PLV	1.16978+02	FMV	0.00000	VDLV	-7.52404+02	VLV	1.16978+02
		PAO	1.07572+02	FAV	7.52464+02	VDAO	6.60292+02	VAO	1.34465+02
		PSC	5.10252+01	FAS	9.21715+01	VDSC	1.13242+01	VSC	3.33498+03

T	4.10000+00	PVC	2.03326+00	FVS	8.08455+01	VDVC	8.08455+01	VVC	5.08315+02
TT	9.99999-02	PRV	1.80221+01	FTV	0.00000	VDRV	-1.72201+02	VRV	1.44177+02
		PAP	1.61080+01	FPV	1.72201+02	VDAP	1.15240+02	VAP	1.21119+02
		PVP	7.97220+00	FPS	5.69556+01	VDVP	5.69556+01	VVP	2.41384+02
		PLV	1.19711+02	FMV	0.00000	VDLV	-4.20832+02	VLV	1.06410+02
		PAO	1.14451+02	FAV	4.20932+02	VDAO	3.17457+02	VAO	1.43064+02
		PSC	5.10305+01	FAS	1.03375+02	VDSC	2.25299+01	VSC	3.33533+03

T	4.12000+00	PVC	2.03973+00	FVS	8.08481+01	VDVC	8.08481+01	VVC	5.09932+02
TT	1.20000-01	PRV	2.07805+01	FTV	0.00000	VDRV	-3.67980+02	VRV	1.38577+02
		PAP	1.66978+01	FPV	3.67980+02	VDAP	3.07172+02	VAP	1.25548+02
		PVP	8.01095+00	FPS	6.08082+01	VDVP	6.08082+01	VVP	2.42756+02
		PLV	1.23370+02	FMV	0.00000	VDLV	-3.58041+02	VLV	9.87027+01
		PAO	1.18903+02	FAV	3.58041+02	VDAO	2.47422+02	VAO	1.48628+02
		PSC	5.10386+01	FAS	1.10619+02	VDSC	2.97705+01	VSC	3.33586+03

T	4.14000+00	PVC	2.04620+00	FVS	8.08536+01	VDVC	8.08536+01	VVC	5.11549+02
TT	1.40000-01	PRV	2.22097+01	FTV	0.00000	VDRV	-4.16387+02	VRV	1.30640+02
		PAP	1.75032+01	FPV	4.16387+02	VDAP	3.49070+02	VAP	1.32205+02
		PVP	8.05290+00	FPS	6.67116+01	VDVP	6.67116+01	VVP	2.44030+02
		PLV	1.23942+02	FMV	0.00000	VDLV	-2.17100+02	VLV	9.35408+01
		PAO	1.21220+02	FAV	2.17106+02	VDAO	1.02713+02	VAO	1.51535+02
		PSC	5.10481+01	FAS	1.14392+02	VDSC	3.35380+01	VSC	3.33649+03

T	4.16000+00	PVC	2.05267+00	FVS	8.08604+01	VDVC	8.08604+01	VVC	5.13166+02
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TT	1.60000-01	PRV	2.32180+01	FTV	0.00000	VDRV	-4.22762+02	VRV	1.22200+02
		PAP	1.85207+01	FPV	4.22762+02	VDAP	3.49811+02	VAP	1.39253+02
		PVP	8.09900+00	FPS	7.29513+01	VDVP	7.29513+01	VVP	2.45427+02
		PLV	1.25170+02	FMV	0.00000	VDLV	-1.98775+02	VLV	8.94070+01
		PAO	1.22685+02	FAV	1.98775+02	VDAO	3.20249+01	VAO	1.53356+02
		PSC	5.10590+01	FAS	1.16750+02	VDSC	3.53399+01	VSC	3.33719+03
T	4.18000+00	PVC	2.05913+00	FVS	8.08682+01	VDVC	8.08682+01	VVC	5.14784+02
TT	1.80000-01	PRV	2.43953+01	FTV	0.00000	VDRV	-4.42393+02	VRV	1.13467+02
		PAP	1.94790+01	FPV	4.42393+02	VDAP	3.53580+02	VAP	1.46465+02
		PVP	8.14931+00	FPS	7.93135+01	VDVP	7.93135+01	VVP	2.40949+02
		PLV	1.25053+02	FMV	0.00000	VDLV	-1.40990+02	VLV	8.62045+01
		PAO	1.23321+02	FAV	1.40990+02	VDAO	2.52200+01	VAO	1.54151+02
		PSC	5.10702+01	FAS	1.17769+02	VDSC	3.50908+01	VSC	3.33792+03
T	4.20000+00	PVC	2.06560+00	FVS	8.08763+01	VDVC	8.08763+01	VVC	5.16401+02
TT	2.00000-01	PRV	2.51402+01	FTV	0.00000	VDRV	-4.24841+02	VRV	1.04751+02
		PAP	2.04197+01	FPV	4.24841+02	VDAP	3.59329+02	VAP	1.53532+02
		PVP	8.20373+00	FPS	6.55118+01	VDVP	6.55118+01	VVP	2.48593+02
		PLV	1.25291+02	FMV	0.00000	VDLV	-1.33540+02	VLV	8.35277+01
		PAO	1.23622+02	FAV	1.33546+02	VDAO	1.53046+01	VAO	1.54528+02
		PSC	5.10815+01	FAS	1.16241+02	VDSC	3.73649+01	VSC	3.33866+03
T	4.22000+00	PVC	2.07207+00	FVS	8.08845+01	VDVC	8.08845+01	VVC	5.18019+02
TT	2.20000-01	PRV	2.59833+01	FTV	0.00000	VDRV	-4.19969+02	VRV	9.62347+01
		PAP	2.13170+01	FPV	4.19969+02	VDAP	3.28585+02	VAP	1.60276+02
		PVP	9.26212+00	FPS	9.13843+01	VDVP	9.13843+01	VVP	2.50367+02
		PLV	1.25417+02	FMV	0.00000	VDLV	-1.27902+02	VLV	8.09143+01
		PAO	1.23910+02	FAV	1.27902+02	VDAO	9.35996+00	VAO	1.54773+02
		PSC	5.10930+01	FAS	1.18542+02	VDSC	3.76578+01	VSC	3.33941+03
T	4.24000+00	PVC	2.07855+00	FVS	8.08929+01	VDVC	8.08929+01	VVC	5.19636+02
TT	2.40000-01	PRV	2.64410+01	FTV	0.00000	VDRV	-3.86813+02	VRV	8.61381+01
		PAP	2.21435+01	FPV	3.86813+02	VDAP	2.90078+02	VAP	1.66492+02
		PVP	8.32424+00	FPS	9.67347+01	VDVP	9.67347+01	VVP	2.52250+02
		PLV	1.25456+02	FMV	0.00000	VDLV	-1.22003+02	VLV	7.84101+01
		PAO	1.23920+02	FAV	1.22603+02	VDAO	3.90840+00	VAO	1.54905+02
		PSC	5.11040+01	FAS	1.18695+02	VDSC	3.73021+01	VSC	3.34017+03
T	4.26000+00	PVC	2.08502+00	FVS	8.09010+01	VDVC	8.09010+01	VVC	5.21254+02
TT	2.60000-01	PRV	2.66720+01	FTV	0.00000	VDRV	-3.43305+02	VRV	8.08260+01
		PAP	2.28520+01	FPV	3.43305+02	VDAP	2.42565+02	VAP	1.71823+02
		PVP	8.38902+00	FPS	1.01240+02	VDVP	1.01240+02	VVP	2.54231+02
		PLV	1.23517+02	FMV	0.00000	VDLV	-4.10606+01	VLV	7.71982+01
		PAO	1.23900+02	FAV	4.10603+01	VDAO	-7.61160+01	VAO	1.53755+02
		PSC	5.11150+01	FAS	1.17177+02	VDSC	3.52764+01	VSC	3.34091+03
T	4.28000+00	PVC	2.09140+00	FVS	8.09081+01	VDVC	8.09081+01	VVC	5.22872+02
TT	2.80000-01	PRV	2.67783+01	FTV	0.00000	VDRV	-3.00695+02	VRV	7.43841+01

		PAP	2.34358+01	FPV	3.00395+02	VDAP	1.96054+02	VAP	1.76203+02
		PVP	8.45768+00	FPS	1.04841+02	VLVP	1.04841+02	VVP	2.56293+02
		PLV	1.22358+02	FMV	0.00000	VDLV	-3.86027+01	VLV	7.64110+01
		PAO	1.21775+02	FAV	3.86027+01	VD AO	-7.65541+01	VAO	1.52219+02
		PSC	5.11267+01	FAS	1.15157+02	VDSC	3.42486+01	VSC	3.34162+03
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T	4.30000+00	PVC	2.09798+00	FVS	8.09140+01	VDVC	8.09140+01	VVC	5.24491+02
TT	3.00000-01	PRV	2.63108+01	FTV	0.00000	VDRV	-2.22549+02	VRV	6.92370+01
		PAP	2.38373+01	FPV	2.22549+02	VDAP	1.15383+02	VAP	1.79227+02
		PVP	8.52772+00	FPS	1.07167+02	VDVP	1.07167+02	VVP	2.58416+02
		PLV	1.18337+02	FMV	0.00000	VDLV	0.00000	VLV	7.63472+01
		PAO	1.20008+02	FAV	0.00000	VD AO	-1.12257+02	VAO	1.50006+02
		PSC	5.11358+01	FAS	1.12257+02	VDSC	3.13432+01	VSC	3.34227+03
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T	4.32000+00	PVC	2.10444+00	FVS	8.09184+01	VDVC	8.09184+01	VVC	5.26109+02
TT	3.20000-01	PRV	2.60961+01	FTV	0.00000	VDRV	-1.81265+02	VRV	6.52401+01
		PAP	2.40826+01	FPV	1.81265+02	VDAP	7.28336+01	VAP	1.81067+02
		PVP	8.59397+00	FPS	1.08382+02	VDVP	1.08382+02	VVP	2.60573+02
		PLV	1.14521+02	FMV	0.00000	VDLV	0.00000	VLV	7.63472+01
		PAO	1.18233+02	FAV	0.00000	VD AO	-1.09353+02	VAO	1.47792+02
		PSC	5.11459+01	FAS	1.09353+02	VDSC	2.34343+01	VSC	3.34287+03
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T	4.34000+00	PVC	2.11091+00	FVS	8.09214+01	VDVC	8.09214+01	VVC	5.27727+02
TT	3.40000-01	PRV	2.25263+01	FTV	0.00000	VDRV	0.00000	VRV	6.43607+01
		PAP	2.39122+01	FPV	0.00000	VDAP	-1.06695+02	VAP	1.79791+02
		PVP	8.67005+00	FPS	1.06695+02	VDVP	1.06695+02	VVP	2.62729+02
		PLV	9.54343+01	FMV	0.00000	VDLV	0.00000	VLV	7.63472+01
		PAO	1.16507+02	FAV	0.00000	VD AO	-1.06524+02	VAO	1.45633+02
		PSC	5.11542+01	FAS	1.06524+02	VDSC	2.56030+01	VSC	3.34341+03
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T	4.36000+00	PVC	2.11738+00	FVS	8.09229+01	VDVC	8.09229+01	VVC	5.29346+02
TT	3.60000-01	PRV	1.93083+01	FTV	0.00000	VDRV	0.00000	VRV	6.43607+01
		PAP	2.36318+01	FPV	0.00000	VDAP	-1.04244+02	VAP	1.77682+02
		PVP	8.73988+00	FPS	1.04244+02	VDVP	1.04244+02	VVP	2.64836+02
		PLV	7.63475+01	FMV	0.00000	VDLV	0.00000	VLV	7.63472+01
		PAO	1.14924+02	FAV	0.00000	VD AO	-1.03770+02	VAO	1.43530+02
		PSC	5.11618+01	FAS	1.03770+02	VDSC	2.28473+01	VSC	3.34389+03
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T	4.38000+00	PVC	2.12388+00	FVS	8.09231+01	VDVC	8.09231+01	VVC	5.30964+02
TT	3.80000-01	PRV	9.76048+00	FTV	0.00000	VDRV	0.00000	VRV	6.43607+01
		PAP	2.33575+01	FPV	0.00000	VDAP	-1.01849+02	VAP	1.75621+02
		PVP	8.86768+00	FPS	1.01849+02	VDVP	1.01849+02	VVP	2.66699+02
		PLV	3.96262+01	FMV	0.00000	VDLV	0.00000	VLV	7.63472+01
		PAO	1.13138+02	FAV	0.00000	VD AO	-1.01066+02	VAO	1.41482+02
		PSC	5.11682+01	FAS	1.01083+02	VDSC	2.01652+01	VSC	3.34432+03
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T	4.40000+00	PVC	2.12913+00	FVS	8.09230+01	VDVC	-8.34900+01	VVC	5.32292+02
TT	4.00000-01	PRV	2.13568+01	FTV	1.49414+02	VDRV	1.49414+02	VRV	6.46613+01
		PAP	2.34497+01	FPV	0.00000	VDAP	-9.98647+01	VAP	1.75607+02

		PVP	8.86334+00	FPS	9.95847+01	VDVP	-4.92460+01	VVP	2.68586+02
		PLV	5.06767-01	FMV	1.48831+02	VDLV	1.48831+02	VLV	7.66733+01
		PAO	1.11580+02	FAV	0.00000	VDAP	-9.84768+01	VAO	1.39480+02
		PSC	5.11730+01	FAS	9.84768+01	VDSC	1.75528+01	VSC	3.34470+03
T	4.42000+00	PVC	2.12370+00	FVS	8.09411+01	VDVC	-8.72972+01	VVC	5.30924+02
TT	4.20000-01	PRV	2.23205-01	FTV	1.48238+02	VDRV	1.48238+02	VRV	8.78379+01
		PAP	2.28270+01	FPV	0.00000	VDAP	-9.79747+01	VAP	1.71632+02
		PVP	8.83061+00	FPS	9.79747+01	VDVP	-4.99371+01	VVP	2.67594+02
		PLV	5.25620-01	FMV	1.47912+02	VDLV	1.47912+02	VLV	7.96408+01
		PAO	1.10734+02	FAV	0.00000	VDAP	-9.59337+01	VAO	1.37542+02
		PSC	5.11780+01	FAS	9.59337+01	VDSC	1.49926+01	VSC	3.34503+03
T	4.44000+00	PVC	2.11838+00	FVS	8.09568+01	VDVC	-8.61052+01	VVC	5.29590+02
TT	4.40000-01	PRV	2.32958-01	FTV	1.47062+02	VDRV	1.47062+02	VRV	7.05909+01
		PAP	2.25685+01	FPV	0.00000	VDAP	-9.63973+01	VAP	1.69088+02
		PVP	8.79740+00	FPS	9.63973+01	VDVP	-5.05771+01	VVP	2.68589+02
		PLV	5.45092-01	FMV	1.46971+02	VDLV	1.46971+02	VLV	8.25897+01
		PAO	1.08519+02	FAV	0.00000	VDAP	-9.34573+01	VAO	1.35649+02
		PSC	5.11831+01	FAS	9.34573+01	VDSC	1.25005+01	VSC	3.34530+03
T	4.46000+00	PVC	2.11312+00	FVS	8.09712+01	VDVC	-8.49279+01	VVC	5.28280+02
TT	4.60000-01	PRV	2.42618-01	FTV	1.45899+02	VDRV	1.45899+02	VRV	7.35205+01
		PAP	2.23141+01	FPV	0.00000	VDAP	-9.48519+01	VAP	1.67775+02
		PVP	8.76386+00	FPS	9.48519+01	VDVP	-5.11800+01	VVP	2.65572+02
		PLV	5.64430-01	FMV	1.46032+02	VDLV	1.46032+02	VLV	8.55198+01
		PAO	1.07043+02	FAV	0.00000	VDAP	-9.16459+01	VAO	1.33804+02
		PSC	5.11866+01	FAS	9.10459+01	VDSC	1.00747+01	VSC	3.34553+03
T	4.48000+00	PVC	2.10797+00	FVS	8.09842+01	VDVC	-8.37053+01	VVC	5.26993+02
TT	4.80000-01	PRV	2.52200-01	FTV	1.44749+02	VDRV	1.44749+02	VRV	7.64269+01
		PAP	2.20632+01	FPV	0.00000	VDAP	-9.33377+01	VAP	1.65894+02
		PVP	8.72980+00	FPS	9.33377+01	VDVP	-5.17470+01	VVP	2.64542+02
		PLV	5.83640-01	FMV	1.45085+02	VDLV	1.45085+02	VLV	8.84309+01
		PAO	1.05605+02	FAV	0.00000	VDAP	-8.80970+01	VAO	1.32006+02
		PSC	5.11893+01	FAS	8.86978+01	VDSC	7.71362+00	VSC	3.34571+03
T	4.50000+00	PVC	2.10292+00	FVS	8.09958+01	VDVC	-8.25171+01	VVC	5.25729+02
TT	5.00000-01	PRV	2.61725-01	FTV	1.43613+02	VDRV	1.43613+02	VRV	7.93105+01
		PAP	2.18176+01	FPV	0.00000	VDAP	-9.18539+01	VAP	1.64042+02
		PVP	8.69550+00	FPS	9.18539+01	VDVP	-5.22794+01	VVP	2.63502+02
		PLV	6.02733-01	FMV	1.44133+02	VDLV	1.44133+02	VLV	9.13231+01
		PAO	1.04200+02	FAV	0.00000	VDAP	-8.64112+01	VAO	1.30255+02
		PSC	5.11913+01	FAS	8.64112+01	VDSC	5.41541+00	VSC	3.34584+03
T	4.52000+00	PVC	2.10795+00	FVS	8.10062+01	VDVC	-8.14832+01	VVC	5.24486+02
TT	5.20000-01	PRV	2.71168-01	FTV	1.42489+02	VDRV	1.42489+02	VRV	8.21715+01
		PAP	2.15751+01	FPV	0.00000	VDAP	-9.03999+01	VAP	1.62219+02
		PVP	8.66900+00	FPS	9.03999+01	VDVP	-5.27782+01	VVP	2.62451+02

		PLV	6.21695-01	FMV	1.43178+02	VDLV	1.43178+02	VLV	9.41962+01
		PAO	1.02341+02	FAV	0.00000	VDAO	-8.41847+01	VAO	1.28550+02
		PSC	5.11926+01	FAS	8.41847+01	VDSC	3.17848+00	VSC	3.34592+03
T	4.54000+00	PVC	2.09368+00	FVS	8.10153+01	VDVC	-6.83633+01	VVC	5.23270+02
TT	5.39999-01	PRV	2.80534-01	FTV	1.41379+02	VDRV	1.41379+02	VRV	3.50102+01
		PAP	2.13361+01	FPV	0.00000	VDAP	-5.33749+01	VAP	1.50426+02
		PVP	8.82591+00	FPS	8.89749+01	VDVP	-5.32446+01	VVP	2.61391+02
		PLV	6.40531-01	FMV	1.42219+02	VDLV	1.42219+02	VLV	9.70502+01
		PAO	1.01511+02	FAV	0.00000	VDAO	-8.20165+01	VAO	1.26888+02
		PSC	5.11932+01	FAS	8.20165+01	VDSC	1.00121+00	VSC	3.34596+03
T	4.56000+00	PVC	2.08829+00	FVS	8.10231+01	VDVC	-5.92572+01	VVC	5.22074+02
TT	5.59999-01	PRV	2.89321-01	FTV	1.40280+02	VDRV	1.40280+02	VRV	8.78267+01
		PAP	2.11018+01	FPV	0.00000	VDAP	-8.75782+01	VAP	1.58860+02
		PVP	8.59067+00	FPS	8.75782+01	VDVP	-5.36790+01	VVP	2.60322+02
		PLV	6.59241-01	FMV	1.41258+02	VDLV	1.41258+02	VLV	9.98850+01
		PAO	1.00215+02	FAV	0.00000	VDAO	-7.99052+01	VAO	1.25269+02
		PSC	5.11932+01	FAS	7.99052+01	VDSC	-1.11795+00	VSC	3.34596+03
T	4.58000+00	PVC	2.08361+00	FVS	8.10298+01	VDVC	-5.81548+01	VVC	5.20399+02
TT	5.79999-01	PRV	2.99051-01	FTV	1.39195+02	VDRV	1.39195+02	VRV	9.06215+01
		PAP	2.08707+01	FPV	0.00000	VDAP	-8.62092+01	VAP	1.56922+02
		PVP	8.55508+00	FPS	8.62092+01	VDVP	-5.40842+01	VVP	2.59244+02
		PLV	6.77323-01	FMV	1.40293+02	VDLV	1.40293+02	VLV	1.02700+02
		PAO	9.89528+01	FAV	0.00000	VDAO	-7.78493+01	VAO	1.23691+02
		PSC	5.11926+01	FAS	7.78493+01	VDSC	-3.18054+00	VSC	3.34592+03
T	4.60000+00	PVC	2.07899+00	FVS	8.10353+01	VDVC	-5.70580+01	VVC	5.19747+02
TT	5.99999-01	PRV	3.08202-01	FTV	1.38121+02	VDRV	1.38121+02	VRV	9.33946+01
		PAP	2.06431+01	FPV	0.00000	VDAP	-8.48673+01	VAP	1.55212+02
		PVP	8.51923+00	FPS	8.48673+01	VDVP	-5.44595+01	VVP	2.58159+02
		PLV	6.95278-01	FMV	1.39327+02	VDLV	1.39327+02	VLV	1.05497+02
		PAO	9.77238+01	FAV	0.00000	VDAO	-7.58473+01	VAO	1.22154+02
		PSC	5.11913+01	FAS	7.58473+01	VDSC	-3.18054+00	VSC	3.34584+03
T	4.62000+00	PVC	2.07441+00	FVS	8.10396+01	VDVC	-5.60204+01	VVC	5.18616+02
TT	6.19999-01	PRV	3.17283-01	FTV	1.37060+02	VDRV	1.37060+02	VRV	9.61464+01
		PAP	2.04191+01	FPV	0.00000	VDAP	-8.35516+01	VAP	1.53527+02
		PVP	8.48317+00	FPS	8.35516+01	VDVP	-5.48064+01	VVP	2.57066+02
		PLV	7.14608-01	FMV	1.38358+02	VDLV	1.38358+02	VLV	1.08274+02
		PAO	9.85255+01	FAV	0.00000	VDAO	-7.36978+01	VAO	1.20657+02
		PSC	5.11694+01	FAS	7.38978+01	VDSC	-7.14186+00	VSC	3.34571+03
T	4.64000+00	PVC	2.07002+00	FVS	8.10429+01	VDVC	-5.49680+01	VVC	5.17506+02
TT	6.39999-01	PRV	3.26294-01	FTV	1.36011+02	VDRV	1.36011+02	VRV	9.88771+01
		PAP	2.01991+01	FPV	0.00000	VDAP	-8.22621+01	VAP	1.51869+02
		PVP	8.44640+00	FPS	8.22621+01	VDVP	-5.51259+01	VVP	2.55966+02
		PLV	7.32701-01	FMV	1.37338+02	VDLV	1.37338+02	VLV	1.11031+02

		PAO	9.53583+01	FAV	0.00000	VDAO	-7.19994+01	VAO	1.19198+02
		PSC	5.11860+01	FAS	7.19994+01	VOSC	-9.04345+00	VSC	3.34555+03
T	4.66000+00	PVC	2.06567+00	FVS	8.10450+01	VDVC	-5.39280+01	VVC	5.16417+02
TT	6.59999-01	PRV	3.35237-01	FTV	1.34974+02	VDVR	1.34974+02	VRV	1.01587+02
		PAP	1.99315+01	FPV	0.00000	VDAP	-6.09975+01	VAP	1.50237+02
		PVP	3.41041+00	FPS	8.09975+01	VDVP	-5.54180+01	VVP	2.54861+02
		PLV	7.50876-01	FMV	1.36416+02	VDLV	1.36416+02	VLV	1.13769+02
		PAO	9.42212+01	FAV	0.00000	VDAO	-7.01509+01	VAO	1.17777+02
		PSC	5.11839+01	FAS	7.01509+01	VOSC	-1.08942+01	VSC	3.34535+03
T	4.68000+00	PVC	2.06139+00	FVS	8.10461+01	VDVC	-5.29120+01	VVC	5.15349+02
TT	6.79999-01	PRV	3.44111-01	FTV	1.33948+02	VDVR	1.33948+02	VRV	1.04276+02
		PAP	1.97677+01	FPV	0.00000	VDAP	-7.97570+01	VAP	1.48029+02
		PVP	8.37375+00	FPS	7.97570+01	VDVP	-5.50862+01	VVP	2.53750+02
		PLV	7.68816-01	FMV	1.35444+02	VDLV	1.35444+02	VLV	1.10488+02
		PAO	9.31133+01	FAV	0.00000	VDAO	-6.85500+01	VAO	1.16392+02
		PSC	5.11403+01	FAS	6.85508+01	VOSC	-1.26953+01	VSC	3.34511+03
T	4.70000+00	PVC	2.05720+00	FVS	8.10462+01	VDVC	-5.18881+01	VVC	5.14301+02
TT	6.99999-01	PRV	3.52918-01	FTV	1.32934+02	VDVR	1.32934+02	VRV	1.06945+02
		PAP	1.95572+01	FPV	0.00000	VDAP	-7.35417+01	VAP	1.47046+02
		PVP	8.33691+00	FPS	7.85417+01	VDVP	-5.59280+01	VVP	2.52634+02
		PLV	7.86633-01	FMV	1.34470+02	VDLV	1.34470+02	VLV	1.19187+02
		PAO	9.20337+01	FAV	0.00000	VDAO	-6.65979+01	VAO	1.15042+02
		PSC	5.11761+01	FAS	6.65979+01	VOSC	-1.44482+01	VSC	3.34484+03
T	4.72000+00	PVC	2.05309+00	FVS	8.10452+01	VDVC	-5.08866+01	VVC	5.13273+02
TT	7.19999-01	PRV	3.61659-01	FTV	1.31932+02	VDVR	1.31932+02	VRV	1.09594+02
		PAP	1.93492+01	FPV	0.00000	VDAP	-7.73493+01	VAP	1.45487+02
		PVP	8.29993+00	FPS	7.73493+01	VDVP	-5.61475+01	VVP	2.51513+02
		PLV	8.04319-01	FMV	1.33497+02	VDLV	1.33497+02	VLV	1.21866+02
		PAO	9.09919+01	FAV	0.00000	VDAO	-6.48911+01	VAO	1.13727+02
		PSC	5.11710+01	FAS	6.48911+01	VOSC	-1.51542+01	VSC	3.34454+03
T	4.74000+00	PVC	2.04900+00	FVS	8.10433+01	VDVC	-4.98975+01	VVC	5.12265+02
TT	7.39999-01	PRV	3.70333-01	FTV	1.30941+02	VDVR	1.30941+02	VRV	1.12222+02
		PAP	1.91456+01	FPV	0.00000	VDAP	-7.61790+01	VAP	1.43952+02
		PVP	8.26280+00	FPS	7.61798+01	VDVP	-5.63431+01	VVP	2.50388+02
		PLV	8.21876-01	FMV	1.32523+02	VDLV	1.32523+02	VLV	1.24527+02
		PAO	8.99571+01	FAV	0.00000	VDAO	-6.32289+01	VAO	1.12446+02
		PSC	5.11662+01	FAS	6.32289+01	VOSC	-1.78144+01	VSC	3.34420+03
T	4.76000+00	PVC	2.04511+00	FVS	8.10404+01	VDVC	-4.89205+01	VVC	5.11277+02
TT	7.59999-01	PRV	3.79947-01	FTV	1.29961+02	VDVR	1.29961+02	VRV	1.14831+02
		PAP	1.89445+01	FPV	0.00000	VDAP	-7.50320+01	VAP	1.42440+02
		PVP	8.22552+00	FPS	7.50328+01	VDVP	-5.65164+01	VVP	2.49259+02
		PLV	8.39305-01	FMV	1.31549+02	VDLV	1.31549+02	VLV	1.27167+02
		PAO	8.99571+01	FAV	0.00000	VDAO	-6.16104+01	VAO	1.11190+02

		PSC	5.11605+01	FAS	6.16104+01	VDSC	-1.94300+01	VSC	3.34383+03
T	4.78000+00	PVC	2.04123+00	FVS	8.10366+01	VDVC	-4.79555+01	VVC	5.10308+02
TT	7.79999-01	PRV	3.87484-01	FTV	1.28992+02	VDRV	1.28992+02	VRV	1.17421+02
		PAP	1.87461+01	FPV	0.00000	VDAP	-7.39077+01	VAP	1.40951+02
		PVP	8.18821+00	FPS	7.39077+01	VDVP	-5.36682+01	VVP	2.48127+02
		PLV	8.56500-01	FMV	1.30578+02	VDLV	1.30578+02	VLV	1.29789+02
		PAO	8.79352+01	FAV	0.00000	VD AO	-8.10344+01	VAO	1.09982+02
		PSC	5.11543+01	FAS	6.06344+01	VDSC	-2.10023+01	VSC	3.34342+03
T	4.80000+00	PVC	2.03744+00	FVS	8.10319+01	VDVC	-4.70024+01	VVC	5.09359+02
TT	7.99999-01	PRV	3.95971-01	FTV	1.28034+02	VDRV	1.28034+02	VRV	1.19991+02
		PAP	1.85513+01	FPV	0.00000	VDAP	-7.28039+01	VAP	1.39484+02
		PVP	8.15078+00	FPS	7.28039+01	VDVP	-5.67992+01	VVP	2.46993+02
		PLV	8.73777-01	FMV	1.29603+02	VDLV	1.29603+02	VLV	1.32390+02
		PAO	8.70370+01	FAV	0.00000	VD AO	-5.64990+01	VAO	1.08796+02
		PSC	5.11477+01	FAS	5.84996+01	VDSC	-2.25323+01	VSC	3.34299+03
T	4.82000+00	PVC	2.03371+00	FVS	8.10263+01	VDVC	-4.60010+01	VVC	5.08428+02
TT	8.19999-01	PRV	4.04380-01	FTV	1.27087+02	VDRV	1.27087+02	VRV	1.22542+02
		PAP	1.83591+01	FPV	0.00000	VDAP	-7.17211+01	VAP	1.36036+02
		PVP	8.11324+00	FPS	7.17211+01	VDVP	-5.69101+01	VVP	2.45850+02
		PLV	8.90321-01	FMV	1.28031+02	VDLV	1.28031+02	VLV	1.34973+02
		PAO	8.61130+01	FAV	0.00000	VD AO	-5.70051+01	VAO	1.07641+02
		PSC	5.11406+01	FAS	5.70051+01	VDSC	-2.40211+01	VSC	3.34252+03
T	4.84000+00	PVC	2.03007+00	FVS	8.10198+01	VDVC	-4.51311+01	VVC	5.07516+02
TT	8.39999-01	PRV	4.12740-01	FTV	1.26151+02	VDRV	1.26151+02	VRV	1.25075+02
		PAP	1.81698+01	FPV	0.00000	VDAP	-7.06587+01	VAP	1.36615+02
		PVP	8.07560+00	FPS	7.06587+01	VDVP	-5.70017+01	VVP	2.44717+02
		PLV	9.07730-01	FMV	1.27650+02	VDLV	1.27650+02	VLV	1.37530+02
		PAO	8.52126+01	FAV	0.00000	VD AO	-5.55499+01	VAO	1.06510+02
		PSC	5.11330+01	FAS	5.55499+01	VDSC	-2.34700+01	VSC	3.34202+03
T	4.86000+00	PVC	2.02649+00	FVS	8.10125+01	VDVC	-4.42127+01	VVC	5.06623+02
TT	8.59999-01	PRV	4.21041-01	FTV	1.25225+02	VDRV	1.25225+02	VRV	1.27586+02
		PAP	1.79332+01	FPV	0.00000	VDAP	-5.96103+01	VAP	1.35212+02
		PVP	8.03801+00	FPS	6.96163+01	VDVP	-5.70747+01	VVP	2.43576+02
		PLV	9.24522-01	FMV	1.26691+02	VDLV	1.26691+02	VLV	1.40079+02
		PAO	8.43352+01	FAV	0.00000	VD AO	-5.41327+01	VAO	1.05419+02
		PSC	5.11250+01	FAS	5.41327+01	VDSC	-2.68790+01	VSC	3.34150+03
T	4.88000+00	PVC	2.02290+00	FVS	8.10043+01	VDVC	-4.33055+01	VVC	5.05748+02
TT	8.79999-01	PRV	4.29278-01	FTV	1.24310+02	VDRV	1.24310+02	VRV	1.30084+02
		PAP	1.77996+01	FPV	0.00000	VDAP	-6.85935+01	VAP	1.33830+02
		PVP	8.60031+00	FPS	6.85935+01	VDVP	-5.71290+01	VVP	2.42434+02
		PLV	9.41132-01	FMV	1.25723+02	VDLV	1.25723+02	VLV	1.42603+02
		PAO	8.34802+01	FAV	0.00000	VD AO	-5.27526+01	VAO	1.04350+02
		PSC	5.11105+01	FAS	5.27523+01	VDSC	-2.32510+01	VSC	3.34095+03

T	4.90000+00	PVC	2.01954+00	FVS	8.09954+01	VDVC	-4.24094+01	VVC	5.04691+02
TT	3.99999-01	PRV	4.37453-01	FTV	1.23405+02	VDRV	1.23405+02	VRV	1.32561+02
		PAP	1.76183+01	FPV	0.00000	VDAP	-0.75897+01	VAP	1.32468+02
		PVP	7.96254+00	FPS	6.75897+01	VDVP	-5.71572+01	VVP	2.41291+02
		PLV	9.57713-01	FMV	1.24757+02	VDLV	1.24757+02	VLV	1.45108+02
		PAO	8.26471+01	FAV	0.00000	VD AO	-5.14090+01	VAO	1.03309+02
		PSC	5.11077+01	FAS	5.14090+01	VDSC	-2.95864+01	VSC	3.34037+03
T	4.92000+00	PVC	2.01621+00	FVS	8.09857+01	VDVC	-4.13242+01	VVC	5.04051+02
TT	9.19999-01	PRV	4.45566-01	FTV	1.22510+02	VDRV	1.22510+02	VRV	1.35020+02
		PAP	1.76397+01	FPV	0.00000	VDAP	-0.66045+01	VAP	1.31126+02
		PVP	7.92485+00	FPS	6.66045+01	VDVP	-5.71881+01	VVP	2.40147+02
		PLV	9.74112-01	FMV	1.23793+02	VDLV	1.23793+02	VLV	1.47594+02
		PAO	8.18340+01	FAV	0.00000	VD AO	-5.01005+01	VAO	1.02294+02
		PSC	5.10984+01	FAS	5.01005+01	VDSC	-3.06852+01	VSC	3.33977+03
T	4.94000+00	PVC	2.01292+00	FVS	8.09752+01	VDVC	-4.06500+01	VVC	5.03230+02
TT	9.39999-01	PRV	4.53622-01	FTV	1.21625+02	VDRV	1.21625+02	VRV	1.37461+02
		PAP	1.72639+01	FPV	0.00000	VDAP	-0.56376+01	VAP	1.29804+02
		PVP	7.88711+00	FPS	6.56376+01	VDVP	-5.71929+01	VVP	2.39003+02
		PLV	9.90395-01	FMV	1.22830+02	VDLV	1.22830+02	VLV	1.50060+02
		PAO	8.10436+01	FAV	0.00000	VD AO	-4.36263+01	VAO	1.01304+02
		PSC	5.10884+01	FAS	4.88263+01	VDSC	-3.21489+01	VSC	3.33914+03
T	4.96000+00	PVC	2.00977+00	FVS	8.09640+01	VDVC	-3.97864+01	VVC	5.02425+02
TT	9.59999-01	PRV	4.61621-01	FTV	1.20750+02	VDRV	1.20750+02	VRV	1.39885+02
		PAP	1.70906+01	FPV	0.00000	VDAP	-0.46685+01	VAP	1.28501+02
		PVP	7.84936+00	FPS	6.46895+01	VDVP	-5.71821+01	VVP	2.37559+02
		PLV	1.00654+00	FMV	1.21871+02	VDLV	1.21871+02	VLV	1.52507+02
		PAO	8.02723+01	FAV	0.00000	VD AO	-4.75855+01	VAO	1.00340+02
		PSC	5.10781+01	FAS	4.75855+01	VDSC	-3.33785+01	VSC	3.33848+03
T	4.98000+00	PVC	2.00655+00	FVS	8.09520+01	VDVC	-3.89333+01	VVC	5.01638+02
TT	9.79999-01	PRV	4.69561-01	FTV	1.19885+02	VDRV	1.19885+02	VRV	1.42291+02
		PAP	1.69197+01	FPV	0.00000	VDAP	-0.37568+01	VAP	1.27216+02
		PVP	7.81163+00	FPS	6.37563+01	VDVP	-5.71564+01	VVP	2.36716+02
		PLV	1.02257+00	FMV	1.20913+02	VDLV	1.20913+02	VLV	1.54935+02
		PAO	7.95207+01	FAV	0.00000	VD AO	-4.53772+01	VAO	9.94008+01
		PSC	5.10686+01	FAS	4.63772+01	VDSC	-3.45746+01	VSC	3.33780+03
T	5.00000+00	PVC	2.00347+00	FVS	8.09393+01	VDVC	-3.80907+01	VVC	5.00868+02
TT	0.00000	PRV	4.77445-01	FTV	1.19030+02	VDRV	1.19030+02	VRV	1.44680+02
		PAP	1.67516+01	FPV	0.00000	VDAP	-0.28422+01	VAP	1.25950+02
		PVP	7.77392+00	FPS	6.28422+01	VDVP	-5.71162+01	VVP	2.35573+02
		PLV	1.03347+00	FMV	1.19958+02	VDLV	1.19958+02	VLV	1.57343+02
		PAO	7.87881+01	FAV	0.00000	VD AO	-4.52007+01	VAO	9.84851+01
		PSC	5.10574+01	FAS	4.52007+01	VDSC	-3.57387+01	VSC	3.33710+03

T	5.02000+00	PVC	2.00701+00	FVS	8.09138+01	VDVC	8.09138+01	VVC	5.01952+02
TT	2.00000-02	PRV	3.86296+00	FTV	0.00000	VDRV	0.00000	VRV	1.45214+02
		PAP	1.65761+01	FPV	0.00000	VLAP	-6.14384+01	VAP	1.24707+02
		PVP	7.80912+00	FPS	0.14384+01	VVAP	0.14384+01	VVP	2.30040+02
		FLV	4.77757+01	FMV	0.00000	VDLV	0.00000	VLV	1.57520+02
		PAO	7.80741+01	FAV	0.00000	VDNU	-4.40549+01	VAO	9.75920+01
		PSC	5.10465+01	FAS	4.40549+01	VDSC	-3.89589+01	VSC	3.33037+03

APPENDIX 2

PHSBED Solution of PHYSBE

(Digital Integrators, Tabular Output)

PROGRAM NAME : PHSBED
PAGE 1 OF LISTING

PHSBED

/ PJ DIONNE 12AUGUST71

/ DIGITAL MODEL (LINE PRINTER OUTPUT)

BGN, CAF

41/ ISZ \$CL1
50/ ISZ \$CL2

BGN+1/ MIST
MXRN
JMS IOVFL\$
LAC (40200
ASC
LAC (100000' / 5000' FOR REAL TIME
DAC \$FC
LAC (1
DAC \$TS
EPI

LOOP, JMS AMODE\$
SZA!CLA
JMP PUMP
DA0
JMP LOOP

PUMP, JMS ICOND
JMS STORE
JMS DIGINT
JMS TSUB
JMS VENAC
JMS RVENT
JMS PULA
JMS PULV
JMS LVENT
JMS AORTA
JMS SYSTEM

JMP LOOP

```

STORE,      0
            LAC INTEGE
            JMS HMPY3$
            LAC (500.
            LAC (250.
            CAS TIME
            JMP I STORE
            NOP
            ICSF
            JMP .+3
            LAW PS-1
            DAC 10

            LAC TIME JMS X.1$ JMS X.1$ DAC I 10
            LAW .9PVC-1 DAC 11
            LAM-21'+1 DAC #CNT
            LAC I 11
            DAC I 10
            ISZ CNT
            JMP -3
            ISZ INTEGE LAC INTEGE
            CAS INTEG2
            NOP
            SKP
            JMP I STORE
            LAC INTEG2 ADD (50' DAC #INTEG2
            DPI
            HOLD
            JMS ICLP$ JMP .-1
            LAM-50'+1
            DAC #CNT2
            LAW PS-1 DAC 10
LOOPY1,     CLL
            LAC (TIME JMS TTAG$ JMS TOCT$ JMS TTAB$
            LAC I 10 JMS TVOLT$ JMS TCR$
            LAC (PVC DAC #AUTO LAM-3+1 DAC #CNT1
            LAW SCALE DAC #AUTO1
LOOPY,      LAM-7+1
            DAC CNT
            CLL
            LAC AUTO
            JMS TTAG$
            JMS TOCT$ JMS TTAB$
            ISZ AUTO
            ISZ CNT
            JMP -6 JMS TCR$
            LAM-7+1
            DAC CNT LAC I 10 XCT I AUTO1
            JMS TVOLT$ JMS TTAB$
            ISZ AUTO1 ISZ CNT JMP -6 JMS TCR$
            ISZ CNT1
            JMP LOOPY
            JMS TCR$ ISZ CNT2 JMP LOOPY1
            LAC TIME
            CAS (500.
            NOP
            JMP EXIT
            COMP
            EPI
            LAW PS-1
            DAC 10
            JMP I STORE

```

```
ICOND,      0
             ICSF
             JMP I ICOND
             LAW PS-1
             DAC 10
             DZM #T1
             DZM #INTEGE
             LAC (50
             DAC INTEG2
             JMP I ICOND
```

```
.1VVC0,      1000.      / 2*VVC(0)
.3VRV0,      1200.      / 8*VRV(0)
.3VAP0,      960.       / 8*VAP(0)
.2VVP0,      960.       / 4*VVP(0)
.3VLV0,      1200.      / 8*VLV(0)
.3VA00,      800.       / 8*VA0(0)
.2VSC0,      1336.      / 4*(0.1*VSC(0))
```

```
RVCOMP,      12'       / DIVIDE ABSCISSA BY 10 FOR 5 SECOND RUN
0.           40.        80.        120.
160.         200.        240.        280.
320.         360.        400.        1000.
0.33         5.         10.         15.
19.          24.        30.         36.
40.          30.        0.33        0.33
```

```
LVCOMP,      12'       / DIVIDE ABSCISSA BY 10 FOR 5 SECOND RUN
0.           40.        80.        120.
160.         200.        240.        280.
320.         360.        400.        1000.
0.66         60.        100.        125.
140.         150.        160.        160.
150.         100.        0.66        0.66
```

```
EXIT,        JMS TFRM$
             JMS HOM$
             703742
             JMP 16000
```

```
TSUB,        0
             LAC TIME
             SUB T1
             JMS X10$ / NOP FOR 5 SECOND RUN
             DAC #T
             LAC T
             CAS (1000. / (100. FOR 5 SECOND RUN
             NOP
             SKP
             JMP I TSUB
             LAC T1
             ADD (100.
             DAC T1
             JMP I TSUB
```

PROGRAM NAME : PHSBED
PAGE 4 OF LISTING

/ DVVC/DT=FVS-FTV
/ VVC(0)=500
/ PVC=0.004*VVC
/ FVS=1.65*(PSC-PVC)

VENAC, 0
LAC .5DVVC / 32*(VVC-VVC(0))
LRSS+4
ADD .1VVC0 / 2*VVC(0)
DAC .1VVC / 2*VVC
JMS HMPY1\$
102.4 / (100*2⁻⁸)*(0.004)
DAC #.9PVC / 512*PVC
LRSS+5
CMA
ADD .4PSC / 16*PSC
JMS HMPY1\$
165. / (100)*(1.65)
DAC #.4FVS / 16*FVS
LRSS+1
SUB .3FTV / 8*FTV
ALSS+1
DAC #.4VDVC / 16*DVVC/DT
JMP I VENAC

/ DVRV/DT=FTV-FPV
/ VRV(0)=150
/ PRV=VRV/CLV
/ FTV=78*(PVC-PRV); (PVC-PRV).GT.0
/ FTV=0; (PVC-PRV).LE.0

RVENT, 0
LAC .4DVRV / 16*(VRV-VRV(0))
LRSS+1
ADD .3VRV0 / 8*VRV(0)
DAC .3VRV / 8*VRV
LAC I
JMS FG1\$
RVCOMP
ALSS+2
JMS HMPY2\$
LAC .3VRV / 8*VRV
DAC #.5PRV / 32*PRV
LAC .9PVC / 512*PVC
LRSS+4
SUB .5PRV / 32*PRV
SPA
JMP TV1
ALSS+1
JMS HMPY1\$
975. / (100/2⁻³)*(78)
DAC #.3FTV / 8*FTV
TV2, LAC .3FTV / 8*FTV
LRSS+2
SUB .1FPV / 2*FPV
DAC #.1VDRV / 2*DVRV/DT
JMP I RVENT
TV1, DZM .3FTV
JMP TV2

PROGRAM NAME : PHSBED
PAGE 5 OF LISTING

/ DVAP/DT=FPV-FPS
/ VAP(0)=120
/ PAP=0.133*VAP
/ FPV=90*(PRV-PAP); (PRV-PAP).GT.0
/ FPV=0; (PRV-PAP).LE.0

PULA, 0
 LAC .4DVAP / 16*(VAP-VAP(0))
 LRSS+1
 ADD .3VAP0 / 8*VAP(0)
 DAC .3VAP / 8*VAP
 JMS HMPY1\$
 106.4 / (100*2³)*(0.133)
 DAC #.6PAP / 64*PAP
 LRSS+1
 CMA
 ADD .5PRV / 32*PRV
 SPA
 JMP PV1
 JMS HMPY1\$
 562.5 / (100/2⁴)*(90)
 DAC #.1FPV / 2*FPV
PV2, LAC .3FPS / 8*FPS
 LRSS+2
 CMA
 ADD .1FPV / 2*FPV
 ALSS+1
 DAC #.2VDAP / 4*DVAP/DT
 JMP I PULA
PV1, DZM .1FPV
 JMP PV2

/ DVVP/DT=FPS-FMV
/ VVP(0)=240
/ PVP=0.033*VVP
/ FPS=7*(PAP-PVP)

PULV, 0
 LAC .5DVVP / 32*(VVP-VVP(0))
 LRSS+3
 ADD .2VVP0 / 4*VVP(0)
 DAC .2VVP / 4*VVP
 JMS HMPY1\$
 105.6 / (100*2⁵)*(0.033)
 DAC #.7PVP / 128*PVP
 LRSS+1
 CMA
 ADD .6PAP / 64*PAP
 JMS HMPY1\$
 87.5 / (100/2³)*(7)
 DAC #.3FPS / 8*FPS
 SUB .3FMV / 8*FMV
 DAC #.3VDVP / 8*DVVP/DT
 JMP I PULV

/ DVLV/DT=FMV-FAV
/ VLV(0)=150
/ PLV=VLV/CLV
/ FMV=17.81*(PVP-PLV); (PVP-PLV).GT.0
/ FMV=0; (PVP-PLV).LE.0

LVENT, 0
LAC .4DVLV / 16*(VLV-VLV(0))
LRSS+1
ADD .3VLV0 / 8*VLV(0)
DAC .3VLV / 8*VLV
LAC 1
JMS FG1\$
LVCOMP
JMS HMPY2\$
LAC .3VLV / 8*VLV
DAC #.3PLV / 8*PLV
LAC .7PVP / 128*PVP
LRSS+4
SUB .3PLV / 8*PLV
SPA
JMP MV1
ALSS+1
JMS HMPY1\$
890.5 / (100/2¹)*(17.81)
DAC #.3FMV / 8*FMV
MV2, LAC .3FMV / 8*FMV
LRSS+3
SUB .0FAV / FAV
DAC #.0VDLV / DVLV/DT
JMP 1 LVENT
MV1, DZM .3FMV JMP MV2

/ DVAO/DT=FAV-FAS
/ VAO(0)=100
/ PA0=0.8*VAO
/ FAV=80*(PLV-PA0); (PLV-PA0).GT.0
/ FAV=0; (PLV-PA0).LE.0

AORTA, 0
LAC .4DVAO / 16*(VAO-VAO(0))
LRSS+1
ADD .3VAO0 / 8*VAO(0)
DAC .3VAO / 8*VAO
JMS HMPY1\$
80. / (100)*(0.8)
DAC #.3PA0 / 8*PA0
CMA
ADD .3PLV / 8*PLV
SPA
JMP AV1
JMS HMPY1\$
1000. / (100/2³)*(80)
DAC #.0FAV / FAV
AV2, LAC .3FAS / 8*FAS
LRSS+3
CMA
ADD .0FAV / FAV
DAC #.0VDVAO / DVAO/DT
JMP 1 AORTA
AV1, DZM .0FAV JMP AV2

PROGRAM NAME : PHSBED
PAGE 7 OF LISTING

/ DVSC/DT=FAS-FVS
/ VSC(0)=3340
/ PSC=0.0153*VSC
/ FAS=1.63*(PA0-PSC)

```
SYSTEM, 0
        LAC .TDVSC / 1024*(0.1*(VSC-VSC(0)))
        LRSS+8
        ADD .2VSC0 / 4*(0.1*VSC(0))
        DAC .2VSC / 4*(0.1*VSC)
        JMS HMPY1$
        G1.2 / (100*10*2^6)*(0.0153)
        DAC #.4PSC / 16*PSC
        LRSS+1
        CMA
        ADD .3PA0 / 8*PA0
        JMS HMPY1$
        163. / (100)*(1.63)
        DAC #.3FAS / 8*FAS
        LAC .4FVS / 16*FVS
        LRSS+1
        CMA
        ADD .3FAS / 8*FAS
        JMS X.1$
        ALSS+5
        DAC #.8VDSC / 256*(0.1*DVSC/DT)
        JMP I SYSTEM
```

```
DIGINT, 0
        JMS CNP$
        0
        DAC #NP
        LAW
        JMP RINT$
        LAC $MODE
        LAC NP

        LAC (0. LAC (100. LRSS ADD TIME
        0 DAC #TIME
        LAC (0 LAC .4VDVC LLSS+1 ADD .5DVVC
        0 DAC #.5DVVC
        LAC (0 LAC .1VDRV LLSS+3 ADD .4DVRV
        0 DAC #.4DVRV
        LAC (0 LAC .2VDAP LLSS+2 ADD .4DVAP
        0 DAC #.4DVAP
        LAC (0 LAC .3VDVP LLSS+2 ADD .5DVVP
        0 DAC #.5DVVP
        LAC (0 LAC .0VDLV LLSS+4 ADD .4DVLV
        0 DAC #.4DVLV
        LAC (0 LAC .0VDAO LLSS+4 ADD .4DVAO
        0 DAC #.4DVAO
        LAC (0 LAC .8VDSC LLSS+2 ADD .TDVSC
        0 DAC #.TDVSC

        NOP
        JMP .+1
        JMP I DIGINT
```

SCALE, LRSS+9 / PVC
 LRSS+5 / PRV
 LRSS+6 / PAP
 LRSS+7 / PVP
 LRSS+3 / PLV
 LRSS+3 / PAO
 LRSS+4 / PSC

 LRSS+4 / FVS
 LRSS+3 / FTV
 LRSS+1 / FPV
 LRSS+3 / FPS
 LRSS+3 / FMV
 LRSS+0 / FAV
 LRSS+3 / FAS

 LRSS+1 / VVC
 LRSS+3 / VRV
 LRSS+3 / VAP
 LRSS+2 / VVP
 LRSS+3 / VLV
 LRSS+3 / VAO
 LRSS+2 / .1VSC

.9PVC,	0	.5PRV,	0	.6PAP,	0
.7PVP,	0	.3PLV,	0	.3PAO,	0
.4PSC,	0				
.4FVS,	0	.3FTV,	0	.1FPV,	0
.3FPS,	0	.3FMV,	0	.0FAV,	0
.3FAS,	0				
.1VVC,	0	.3VRV,	0	.3VAP,	0
.2VVP,	0	.3VLV,	0	.3VAO,	0
.2VSC,	0				

PVC,	0	PRV,	0	PAP,	0
PVP,	0	PLV,	0	PAO,	0
PSC,	0				
FVS,	0	FTV,	0	FPV,	0
FPS,	0	FMV,	0	FAV,	0
FAS,	0				
VVC,	0	VRV,	0	VAP,	0
VVP,	0	VLV,	0	VAO,	0
VSC,	0				

PS,
 .+1200'

PAUSE

PHSBED

AMODE\$		PVP	724*	.3PAO	701*
AORTA	477*	PV1	421*	.3PLV	700*
AUTO	3226*	PV2	412*	.3VAO	717*
AUTO1	3227*	RINT\$		.3VAO0	205*
AV1	524*	RVCOMP	207*	.3VAP	714*
AV2	516*	RVENT	336*	.3VAP0	202*
BGN	0*	SCALE	647*	.3VDVP	3246*
CNP\$		STORE	34*	.3VLV	716*
CNT	3230*	SYSTEM	526*	.3VLV0	204*
CNT1	3231*	T	3236*	.3VRV	713*
CNT2	3232*	TCR\$		.3VRV0	201*
DIGINT	554*	TFRM\$		.4DVAO	3247*
EXIT	271*	TIME	3237*	.4DVAP	3250*
FAS	736*	TOCT\$		.4DVLV	3251*
FAV	735*	TSUB	275*	.4DVRV	3252*
FG1\$		TTAB\$		.4FVS	703*
FMV	734*	TTAG\$		.4PSC	702*
FPS	733*	TVOLT\$		.4VDVC	3253*
FPV	732*	TV1	370*	.5DVVC	3254*
FTV	731*	TV2	363*	.5DVVP	3255*
FVS	730*	TI	3240*	.5PRV	675*
HMPY1\$		VAO	744*	.6PAP	676*
HMPY2\$		VAP	741*	.7PVP	677*
HMPY3\$		VENAC	313*	.8VDSC	3256*
HOM\$		VLV	743*	.9PVC	674*
ICLP\$		VRV	740*	\$CL1	
ICOND	166*	VSC	745*	\$CL2	
INTEGE	3233*	VVC	737*	\$FC	
INTEG2	3234*	VVP	742*	\$MODE	
IOVFL\$		X.1\$		\$TS	
LOOP	13*	X10\$			
LOOPY	123*	.1DVSC	3241*		
LOOPY1	125*	.0FAV	710*		
LVCOMP	240*	.0VDAO	3242*		
LVENT	444*	.0VDLV	3243*		
MV1	475*	.1FPV	705*		
MV2	470*	.1VDRV	3244*		
NP	3235*	.1VVC	712*		
PAO	726*	.1VVC0	200*		
PAP	723*	.2VDAP	3245*		
PLV	725*	.2VSC	720*		
PRV	722*	.2VSC0	206*		
PS	746*	.2VVP	715*		
PSC	727*	.2VVP0	203*		
PULA	372*	.3FAS	711*		
PULV	423*	.3FMV	707*		
PUMP	20*	.3FPS	706*		
PVC	721*	.3FTV	704*		

MISSBBD

BGN	0*	.3FAS	711*	.4DVAP	3250*
LOOP	13*	.1VVC	712*	.4DVLV	3251*
PUMP	20*	.3VRV	713*	.4DVRV	3252*
STORE	34*	.3VAP	714*	.4VDVC	3253*
LOOPY1	105*	.2VVP	715*	.5DVVC	3254*
LOOPY	123*	.3VLV	716*	.5DVVP	3255*
ICONJ	166*	.3VAO	717*	.8VDSC	3256*
.1VVC0	200*	.2VSC	720*	TTAG\$	
.3VRV0	201*	PVC	721*	FGIS	
.3VAP0	202*	PRV	722*	HMPY3\$	
.2VVP0	203*	PAP	723*	IOVFL\$	
.3VLV3	204*	PVP	724*	HMPY1\$	
.3VAO0	205*	PLV	725*	X10\$	
.2VSC0	206*	PAO	726*	TCR\$	
RVCOMP	207*	PSC	727*	AMODE\$	
LVCOMP	240*	FVS	730*	X.1\$	
EXIT	271*	FTV	731*	CNP\$	
TSUB	275*	FPV	732*	TTAB\$	
VENAC	313*	FPS	733*	RINT\$	
RVENT	336*	FMV	734*	TVOLT\$	
TV2	363*	FAV	735*	HMPY2\$	
TV1	370*	FAS	736*	HOM\$	
PULA	372*	VVC	737*	TOCT\$	
PV2	412*	VRV	740*	ICLPS	
PV1	421*	VAP	741*	TFRM\$	
PULV	423*	VVP	742*	\$CL1	
LVENT	444*	VLV	743*	\$CL2	
MV2	470*	VAO	744*	\$FC	
MV1	475*	VSC	745*	\$MODE	
AORTA	477*	PS	746*	\$TS	
AV2	516*	AUTO	3226*		
AV1	524*	AUTO1	3227*		
SYSTEM	526*	CNT	3230*		
DIGINT	554*	CNT1	3231*		
SCALE	647*	CNT2	3232*		
.9PVC	674*	INTEGE	3233*		
.5PRV	675*	INTEG2	3234*		
.6PAP	676*	NP	3235*		
.7PVP	677*	I	3236*		
.3PLV	700*	TIME	3237*		
.3PAO	701*	T1	3240*		
.4PSC	702*	.1DVSC	3241*		
.4FVS	703*	.0VDAO	3242*		
.3FTV	704*	.0VDLV	3243*		
.1FPV	705*	.1VDRV	3244*		
.3FPS	706*	.2VDAP	3245*		
.3FMV	707*	.3VDVP	3246*		
.0FAV	710*	.4DVAO	3247*		

KM

UNIT
RELOC

LINK

SINTI	16
FSI\$	17
OVFL\$	4520
-SYMBL\$	4231
CLP\$	3372
WCL\$	3667
PGSIZ\$	3740
ROTAT\$	3741
FONT\$	3742
CHRSP\$	3743
LINSP\$	3744
CHRCT\$	3745
TABSP\$	3746
TTYP\$	4222
LINCT\$	4030
ACL1	5047
ACL2	5050
IOVFL\$	4507
AFC	5245
ATS	5246
AMODE\$	4643
HMPY3\$	4423
ICLP\$	3767
TTAC\$	4227
TOCT\$	4066
TVOLIT\$	4114
TTAB\$	4213
TCR\$	4173
TERMS	4204
HOM\$	4012
XI0\$	4456
FSI\$	4545
HMPY2\$	4366
HMPY1\$	4332
X.1\$	4502
CNP\$	5024
RINT\$	4667
SMODE	5051

KM

UNIT
RELOC

HDDT

TABLES

5052

12736

*next time put this at
12400*

12500(CORIT2)

CORIT2 2/ 0

200

15216/

XOR CORIT2 233

:

252733

ITAG\$ 2/

LAC

LAC 5052

5052/

JMP \$MODE 36

252733

CORIT2'

CORIT2/

JMP CORIT2 4

CORIT2 1/

2

CORIT2 2/

STORE 44

:

200

CORIT2 3/

M\$ 567

CORIT2'

BON'

CORIT2'

CORIT2/

JMP CORIT2 4

CORIT2:

12500

12500'

CORIT2 210/ MMLC

CORIT2 211/ JMP CORIT2 167

CORIT2 212/ GLK LINCT\$ 3

CORIT2 213/ JMP I CORIT2 3

CORIT2 214/ 0

CORIT2 215/ LAW M\$ 2522

CORIT2 216/ 0

CORIT2 217/ 0

CORIT2 220/ 0

CORIT2 221/ 0

CORIT2'

1

12710/ MMLC

CORIT2 211/ JMP CORIT2 167

CORIT2 212/ GLK LINCT\$ 3

:

754043

12712/ GLK LINCT\$ 3

12520(CORIT2)

CORIT2 2/ 0

200

CORIT2'

TIME	0.00	PAP	PVP	PLV	PAO	PSC
PVC	PRV	15.96	7.91	0.99	80.00	51.09
1.99	0.49	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	56.27	123.43	0.00	47.12
81.01	117.43	VRV	VVP	VLV	VAO	VSC
VVC	VRV	119.99	239.99	150.00	100.00	334.00
500.00	150.00					
TIME	0.01	PAP	PVP	PLV	PAO	PSC
PVC	PRV	15.81	7.95	45.26	79.26	51.09
2.00	3.98	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	55.03	0.00	0.00	45.92
80.98	0.00	VAP	VVP	VLV	VAO	VSC
VVC	VRV	118.88	240.88	150.19	99.07	333.92
501.07	150.51					
TIME	0.04	PAP	PVP	PLV	PAO	PSC
PVC	PRV	15.66	7.98	88.77	80.02	51.07
2.00	7.49	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	53.76	0.00	701.05	47.17
80.96	0.00	VAP	VVP	VLV	VAO	VSC
VVC	VRV	117.80	241.97	148.42	100.01	333.86
502.70	150.51					
TIME	0.05	PAP	PVP	PLV	PAO	PSC
PVC	PRV	15.52	8.02	104.54	93.23	51.06
2.01	11.26	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	52.53	0.00	905.27	68.71
80.93	0.00	VAP	VVP	VLV	VAO	VSC
VVC	VRV	116.74	243.04	130.79	116.51	333.82
504.32	150.51					
TIME	0.08	PAP	PVP	PLV	PAO	PSC
PVC	PRV	15.38	8.04	114.29	105.14	51.06
2.01	15.04	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	51.32	0.00	733.03	88.13
80.92	0.00	VAP	VVP	VLV	VAO	VSC
VVC	VRV	115.69	244.08	114.29	131.41	333.80
505.95	150.51					
TIME	0.10	PAP	PVP	PLV	PAO	PSC
PVC	PRV	15.59	8.08	116.98	111.85	51.06
2.03	18.49	FPV	FPS	FMV	FAV	FAS
FVS	FTV	262.12	52.49	0.00	409.79	99.09
80.91	0.00	VAP	VVP	VLV	VAO	VSC
VVC	VRV	117.20	245.10	103.98	139.81	333.84
507.56	148.00					
TIME	0.11	PAP	PVP	PLV	PAO	PSC
PVC	PRV	16.38	8.12	120.56	116.23	51.07
2.03	21.13	FPV	FPS	FMV	FAV	FAS
FVS	FTV	428.09	57.83	0.00	346.68	106.19
80.91	0.00	VAP	VVP	VLV	VAO	VSC
VVC	VRV	123.21	246.20	96.45	145.28	333.88
509.18	140.92					
TIME	0.14	PAP	PVP	PLV	PAO	PSC
PVC	PRV	17.39	8.15	121.12	118.49	51.09
2.04	22.43	FPV	FPS	FMV	FAV	FAS
FVS	FTV	453.18	64.61	0.00	210.33	109.88
80.92	0.00	VAP	VVP	VLV	VAO	VSC
VVC	VRV	130.81	247.42	91.44	148.11	333.94
510.79	132.11					
TIME	0.16	PAP	PVP	PLV	PAO	PSC
PVC	PRV	18.41	8.20	122.35	119.93	51.09
2.04	23.35	FPV	FPS	FMV	FAV	FAS
FVS	FTV	445.29	71.44	0.00	193.97	112.21
80.92	0.00	VAP	VVP	VLV	VAO	VSC
VVC	VRV	138.46	248.78	87.43	149.90	334.00
512.40	123.08					
TIME	0.17	PAP	PVP	PLV	PAO	PSC
PVC	PRV	19.42	8.25	122.29	120.58	51.10
2.05	24.49	FPV	FPS	FMV	FAV	FAS
FVS	FTV	455.93	78.16	0.00	137.33	113.25
80.92	0.00	VAP	VVP	VLV	VAO	VSC
VVC	VRV	146.06	250.28	84.35	150.72	334.06
514.03	113.99					
TIME	0.20	PAP	PVP	PLV	PAO	PSC
PVC	PRV	20.38	8.31	122.52	120.90	51.11
2.05	25.21	FPV	FPS	FMV	FAV	FAS
FVS	FTV	433.47	84.58	0.00	130.61	113.75
80.93	0.00	VAP	VVP	VLV	VAO	VSC
VVC	VRV	153.37	251.92	81.68	151.11	334.12
515.65	105.06					
TIME	0.22					

VC	PRV	PAP	PVP	PLV	PAO	PSC
2.06	26.03	21.32	8.36	122.66	121.11	51.12
FVS	FTV	FPV	FPS	FMV	FAV	FAS
80.93	0.00	424.65	90.60	0.00	124.39	114.07
VVC	VRV	VAP	VVP	VLV	VAO	VSC
517.27	96.41	160.27	253.66	79.14	151.38	334.18
TIME	0.23					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.07	26.47	22.14	8.42	122.72	121.23	51.13
FVS	FTV	FPV	FPS	FMV	FAV	FAS
80.95	0.00	388.67	96.05	0.00	119.02	114.25
VVC	VRV	VAP	VVP	VLV	VAO	VSC
518.90	88.22	166.58	255.54	76.70	151.53	334.25
TIME	0.26					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.07	26.70	22.85	8.50	120.85	120.35	51.13
FVS	FTV	FPV	FPS	FMV	FAV	FAS
80.95	0.00	345.45	100.55	0.00	39.43	112.81
VVC	VRV	VAP	VVP	VLV	VAO	VSC
520.50	80.95	171.90	257.48	75.53	150.43	334.32
TIME	0.27					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.09	26.78	23.45	8.56	119.63	119.17	51.15
FVS	FTV	FPV	FPS	FMV	FAV	FAS
80.96	0.00	300.50	104.19	0.00	37.23	110.85
VVC	VRV	VAP	VVP	VLV	VAO	VSC
522.12	74.46	176.32	259.55	74.77	148.95	334.38
TIME	0.29					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.09	26.32	23.85	8.63	115.80	117.46	51.16
FVS	FTV	FPV	FPS	FMV	FAV	FAS
80.96	0.00	222.50	106.53	0.00	0.00	108.07
VVC	VRV	VAP	VVP	VLV	VAO	VSC
523.74	69.30	179.36	261.66	74.69	146.82	334.44
TIME	0.32					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.10	26.11	24.10	8.70	112.05	115.75	51.17
FVS	FTV	FPV	FPS	FMV	FAV	FAS
80.96	0.00	181.82	107.76	0.00	0.00	105.26
VVC	VRV	VAP	VVP	VLV	VAO	VSC
525.37	65.29	181.21	263.81	74.69	144.68	334.49
TIME	0.33					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.10	22.94	23.92	8.76	93.37	114.09	51.17
FVS	FTV	FPV	FPS	FMV	FAV	FAS
80.96	0.00	0.00	106.09	0.00	0.00	102.54
VVC	VRV	VAP	VVP	VLV	VAO	VSC
526.99	64.38	179.96	265.96	74.69	142.60	334.53
TIME	0.35					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.11	19.31	23.65	8.84	74.69	112.46	51.18
FVS	FTV	FPV	FPS	FMV	FAV	FAS
80.96	0.00	0.00	103.66	0.00	0.00	99.89
VVC	VRV	VAP	VVP	VLV	VAO	VSC
528.60	64.38	177.86	268.04	74.69	140.58	334.57
TIME	0.38					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.11	9.81	23.38	8.91	37.82	110.89	51.18
FVS	FTV	FPV	FPS	FMV	FAV	FAS
80.96	0.00	0.00	101.28	0.00	0.00	97.32
VVC	VRV	VAP	VVP	VLV	VAO	VSC
530.21	64.38	175.82	270.09	74.69	138.61	334.61
TIME	0.39					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.12	0.27	23.11	8.96	0.72	109.35	51.18
FVS	FTV	FPV	FPS	FMV	FAV	FAS
80.96	144.30	0.00	99.02	146.85	0.00	94.80
VVC	VRV	VAP	VVP	VLV	VAO	VSC
531.58	64.66	173.82	271.79	75.03	136.68	334.63
TIME	0.41					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.11	0.22	22.85	8.93	0.51	107.86	51.20
FVS	FTV	FPV	FPS	FMV	FAV	FAS
80.97	148.06	0.00	97.44	149.95	0.00	92.36
VVC	VRV	VAP	VVP	VLV	VAO	VSC
530.23	67.63	171.85	270.75	78.03	134.81	334.67
TIME	0.44					
PVC	PRV	PAP	PVP	PLV	PAO	PSC

2.11	0.23	22.60	8.90	0.53	106.40	51.20
FVS	FTV	FPV	FPS	FMV	FAV	FAS
80.98	146.89	0.00	95.87	148.97	0.00	89.96
VVC	VRV	VAP	VVP	VLV	VAO	VSC
528.90	70.59	169.91	269.69	81.03	132.98	334.68
TIME	0.45					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.10	0.23	22.34	8.86	0.55	104.98	51.20
FVS	FTV	FPV	FPS	FMV	FAV	FAS
80.99	145.70	0.00	94.36	148.02	0.00	87.65
VVC	VRV	VAP	VVP	VLV	VAO	VSC
527.59	73.51	168.01	268.61	84.00	131.21	334.69
TIME	0.48					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.10	0.24	22.09	8.83	0.56	103.59	51.20
FVS	FTV	FPV	FPS	FMV	FAV	FAS
81.01	144.57	0.00	92.86	147.05	0.00	85.39
VVC	VRV	VAP	VVP	VLV	VAO	VSC
526.30	76.41	166.14	267.54	86.95	129.48	334.70
TIME	0.49					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.10	0.26	21.84	8.79	0.59	102.23	51.20
FVS	FTV	FPV	FPS	FMV	FAV	FAS
81.02	143.41	0.00	91.40	146.03	0.00	83.18
VVC	VRV	VAP	VVP	VLV	VAO	VSC
525.04	79.31	164.28	266.44	89.89	127.78	334.72
TIME	0.51					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.09	0.27	21.61	8.75	0.61	100.93	51.20
FVS	FTV	FPV	FPS	FMV	FAV	FAS
81.03	142.31	0.00	89.96	145.08	0.00	81.05
VVC	VRV	VAP	VVP	VLV	VAO	VSC
523.82	82.14	162.49	265.36	92.77	126.16	334.72
TIME	0.54					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.09	0.27	21.36	8.72	0.62	99.65	51.20
FVS	FTV	FPV	FPS	FMV	FAV	FAS
81.04	141.21	0.00	88.56	144.08	0.00	78.97
VVC	VRV	VAP	VVP	VLV	VAO	VSC
522.60	84.98	160.69	264.26	95.67	124.56	334.72
TIME	0.55					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.07	0.28	21.13	8.68	0.65	98.40	51.20
FVS	FTV	FPV	FPS	FMV	FAV	FAS
81.04	140.11	0.00	87.17	143.10	0.00	76.93
VVC	VRV	VAP	VVP	VLV	VAO	VSC
521.40	87.81	158.93	263.14	98.56	122.98	334.70
TIME	0.57					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.07	0.29	20.90	8.64	0.66	97.18	51.20
FVS	FTV	FPV	FPS	FMV	FAV	FAS
81.05	139.04	0.00	85.81	142.07	0.00	74.94
VVC	VRV	VAP	VVP	VLV	VAO	VSC
520.23	90.60	157.20	262.01	101.42	121.47	334.70
TIME	0.60					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.07	0.30	20.68	8.60	0.69	96.00	51.20
FVS	FTV	FPV	FPS	FMV	FAV	FAS
81.05	137.96	0.00	84.50	141.09	0.00	73.02
VVC	VRV	VAP	VVP	VLV	VAO	VSC
519.08	93.36	155.49	260.88	104.24	119.99	334.68
TIME	0.61					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.06	0.30	20.45	8.57	0.70	94.84	51.20
FVS	FTV	FPV	FPS	FMV	FAV	FAS
01.05	136.89	0.00	83.19	140.09	0.00	71.13
VVC	VRV	VAP	VVP	VLV	VAO	VSC
517.94	96.13	153.81	259.74	107.07	118.54	334.67
TIME	0.64					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.06	0.32	20.23	8.53	0.72	93.73	51.18
FVS	FTV	FPV	FPS	FMV	FAV	FAS
81.05	135.85	0.00	81.92	139.11	0.00	69.32
VVC	VRV	VAP	VVP	VLV	VAO	VSC
516.84	98.84	152.17	258.60	109.84	117.15	334.64
TIME	0.66					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.06	0.33	20.02	8.50	0.73	92.63	51.18

FVS 81.05 VVC 515.76	FTV 134.81 VRV 101.55	FPV 0.00 VAP 150.55	FPS 80.68 VVP 257.46	FMV 138.10 VLV 112.61	FAV 0.00 VAD 115.77	FAS 67.54 VSC 334.62
TIME PVC 2.05 FVS 81.05 VVC 514.70	0.67 PRV 0.34 FTV 133.80 VRV 104.22	PAP 19.80 FPV 0.00 VAP 148.95	PVP 8.45 FPS 79.46 VVP 256.31	PLV 0.76 FMV 137.10 VLV 115.36	PAO 91.57 FAV 0.00 VAD 114.44	PSC 51.18 FAS 65.81 VSC 334.59
TIME PVC 2.05 FVS 81.05 VVC 513.66	0.70 PRV 0.34 FTV 132.79 VRV 106.89	PAP 19.59 FPV 0.00 VAP 147.38	PVP 8.41 FPS 78.26 VVP 255.16	PLV 0.77 FMV 136.10 VLV 118.09	PAO 90.53 FAV 0.00 VAD 113.15	PSC 51.17 FAS 64.12 VSC 334.56
TIME PVC 2.04 FVS 81.05 VVC 512.62	0.71 PRV 0.35 FTV 131.77 VRV 109.55	PAP 19.39 FPV 0.00 VAP 145.81	PVP 8.38 FPS 77.07 VVP 253.99	PLV 0.79 FMV 135.11 VLV 120.81	PAO 89.50 FAV 0.00 VAD 111.88	PSC 51.17 FAS 62.48 VSC 334.52
TIME PVC 2.04 FVS 81.05 VVC 511.62	0.73 PRV 0.37 FTV 130.80 VRV 112.17	PAP 19.19 FPV 0.00 VAP 144.29	PVP 8.34 FPS 75.92 VVP 252.83	PLV 0.81 FMV 134.11 VLV 123.50	PAO 88.52 FAV 0.00 VAD 110.64	PSC 51.17 FAS 60.88 VSC 334.49
TIME PVC 2.04 FVS 81.04 VVC 510.65	0.76 PRV 0.37 FTV 129.81 VRV 114.76	PAP 18.98 FPV 0.00 VAP 142.79	PVP 8.30 FPS 74.78 VVP 251.67	PLV 0.83 FMV 133.11 VLV 126.16	PAO 87.56 FAV 0.00 VAD 109.45	PSC 51.16 FAS 59.32 VSC 334.45
TIME PVC 2.04 FVS 81.04 VVC 509.68	0.77 PRV 0.38 FTV 128.86 VRV 117.35	PAP 18.79 FPV 0.00 VAP 141.30	PVP 8.27 FPS 73.67 VVP 250.50	PLV 0.84 FMV 132.09 VLV 128.81	PAO 86.62 FAV 0.00 VAD 108.28	PSC 51.15 FAS 57.81 VSC 334.40
TIME PVC 2.03 FVS 81.04 VVC 508.73	0.70 PRV 0.39 FTV 127.88 VRV 119.92	PAP 18.59 FPV 0.00 VAP 139.83	PVP 8.23 FPS 72.58 VVP 249.33	PLV 0.85 FMV 131.12 VLV 131.45	PAO 85.71 FAV 0.00 VAD 107.13	PSC 51.15 FAS 56.33 VSC 334.35
TIME PVC 2.03 FVS 81.03 VVC 507.80	0.82 PRV 0.40 FTV 126.93 VRV 122.47	PAP 18.40 FPV 0.00 VAP 138.39	PVP 8.18 FPS 71.51 VVP 248.16	PLV 0.88 FMV 130.11 VLV 134.07	PAO 84.81 FAV 0.00 VAD 106.02	PSC 51.13 FAS 54.90 VSC 334.30
TIME PVC 2.03 FVS 81.02 VVC 506.88	0.83 PRV 0.40 FTV 126.00 VRV 125.01	PAP 18.21 FPV 0.00 VAP 136.96	PVP 8.14 FPS 70.45 VVP 246.99	PLV 0.89 FMV 129.10 VLV 136.67	PAO 83.95 FAV 0.00 VAD 104.93	PSC 51.12 FAS 53.49 VSC 334.24
TIME PVC 2.01 FVS 81.02 VVC 506.00	0.85 PRV 0.41 FTV 125.11 VRV 127.53	PAP 18.03 FPV 0.00 VAP 135.57	PVP 8.11 FPS 69.42 VVP 245.81	PLV 0.91 FMV 128.13 VLV 139.24	PAO 83.11 FAV 0.00 VAD 103.87	PSC 51.12 FAS 52.12 VSC 334.19
TIME PVC 2.01 FVS	0.88 PRV 0.43 FTV	PAP 17.85 FPV	PVP 8.07 FPS	PLV 0.93 FMV	PAO 82.29 FAV	PSC 51.11 FAS

81.01	124.16	0.00	68.42	127.15	0.00	50.81
VVC	VRV	VAP	VVP	VLV	VAD	VSC
505.13	130.00	134.19	244.64	141.77	102.86	334.13
TIME	0.89					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.01	0.43	17.66	8.03	0.94	81.48	51.10
FVS	FTV	FPV	FPS	FMV	FAV	FAS
80.99	123.27	0.00	67.42	126.15	0.00	49.51
VVC	VRV	VAP	VVP	VLV	VAD	VSC
504.27	132.48	132.84	243.47	144.31	101.84	334.07
TIME	0.91					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.00	0.44	17.48	7.99	0.96	80.70	51.09
FVS	FTV	FPV	FPS	FMV	FAV	FAS
80.98	122.40	0.00	66.44	125.17	0.00	48.24
VVC	VRV	VAP	VVP	VLV	VAD	VSC
503.43	134.95	131.50	242.29	146.84	100.87	334.01
TIME	0.94					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.00	0.45	17.31	7.95	0.98	79.93	51.09
FVS	FTV	FPV	FPS	FMV	FAV	FAS
80.97	121.51	0.00	65.49	124.16	0.00	47.02
VVC	VRV	VAP	VVP	VLV	VAD	VSC
502.61	137.38	130.18	241.11	149.32	99.91	333.94
TIME	0.95					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.00	0.45	17.14	7.91	0.99	79.19	51.07
FVS	FTV	FPV	FPS	FMV	FAV	FAS
80.96	120.65	0.00	64.54	123.21	0.00	45.82
VVC	VRV	VAP	VVP	VLV	VAD	VSC
501.01	139.81	128.87	239.94	151.81	98.99	333.88
TIME	0.98					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.00	0.46	16.97	7.87	1.01	78.47	51.06
FVS	FTV	FPV	FPS	FMV	FAV	FAS
80.95	119.75	0.00	63.62	122.21	0.00	44.67
VVC	VRV	VAP	VVP	VLV	VAD	VSC
501.02	142.21	127.59	238.77	154.26	98.07	333.80

TIME	0.99					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
1.99	0.48	16.80	7.84	1.02	77.76	51.05
FVS	FTV	FPV	FPS	FMV	FAV	FAS
80.93	118.90	0.00	62.72	121.25	0.00	43.53
VVC	VRV	VAP	VVP	VLV	VAO	VSC
500.26	144.59	126.33	237.60	156.69	97.19	333.73
TIME	1.01					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.00	3.83	16.63	7.87	47.28	77.07	51.04
FVS	FTV	FPV	FPS	FMV	FAV	FAS
80.91	0.00	0.00	61.33	0.00	0.00	42.43
VVC	VRV	VAP	VVP	VLV	VAO	VSC
501.31	145.14	125.09	238.63	156.87	96.34	333.66
TIME	1.04					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.00	7.23	16.47	7.91	91.51	79.59	51.02
FVS	FTV	FPV	FPS	FMV	FAV	FAS
80.89	0.00	0.00	59.91	0.00	952.27	46.56
VVC	VRV	VAP	VVP	VLV	VAO	VSC
502.93	145.14	123.88	239.84	152.98	99.49	333.57
TIME	1.05					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.01	10.85	16.31	7.95	106.34	94.60	51.02
FVS	FTV	FPV	FPS	FMV	FAV	FAS
80.86	0.00	0.00	58.53	0.00	937.74	71.04
VVC	VRV	VAP	VVP	VLV	VAO	VSC
504.55	145.14	122.69	241.03	133.03	118.26	333.53
TIME	1.07					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.01	14.50	16.16	7.98	116.18	106.79	51.02
FVS	FTV	FPV	FPS	FMV	FAV	FAS
80.85	0.00	0.00	57.19	0.00	751.22	90.90
VVC	VRV	VAP	VVP	VLV	VAO	VSC
506.16	145.14	121.54	242.19	116.18	133.47	333.53
TIME	1.10					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.03	18.02	16.14	8.02	118.82	113.63	51.02
FVS	FTV	FPV	FPS	FMV	FAV	FAS
80.85	0.00	169.15	56.79	0.00	414.55	102.05
VVC	VRV	VAP	VVP	VLV	VAO	VSC
507.79	144.18	121.37	243.32	105.62	142.04	333.57
TIME	1.11					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.03	20.80	16.72	8.06	122.50	118.04	51.04
FVS	FTV	FPV	FPS	FMV	FAV	FAS
80.85	0.00	367.14	60.58	0.00	356.08	109.22
VVC	VRV	VAP	VVP	VLV	VAO	VSC
509.40	138.67	125.75	244.49	90.00	147.55	333.62
TIME	1.14					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.04	22.20	17.59	8.11	123.03	120.34	51.04
FVS	FTV	FPV	FPS	FMV	FAV	FAS
80.85	0.00	415.42	66.42	0.00	215.70	112.95
VVC	VRV	VAP	VVP	VLV	VAO	VSC
511.01	130.84	132.32	245.75	92.89	150.42	333.68
TIME	1.16					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.04	23.23	18.53	8.15	124.28	121.79	51.05
FVS	FTV	FPV	FPS	FMV	FAV	FAS
80.86	0.00	422.94	72.66	0.00	198.61	115.29
VVC	VRV	VAP	VVP	VLV	VAO	VSC
512.62	122.40	139.37	247.15	88.79	152.24	333.74
TIME	1.17					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.05	24.41	19.50	8.20	124.18	122.44	51.06
FVS	FTV	FPV	FPS	FMV	FAV	FAS
80.86	0.00	442.34	79.05	0.00	139.40	116.33
VVC	VRV	VAP	VVP	VLV	VAO	VSC
514.26	113.63	146.62	248.67	85.65	153.04	333.82
TIME	1.20					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.06	25.17	20.43	8.25	124.40	122.74	51.07
FVS	FTV	FPV	FPS	FMV	FAV	FAS
80.87	0.00	425.75	85.28	0.00	132.20	116.82
VVC	VRV	VAP	VVP	VLV	VAO	VSC
515.87	104.90	153.71	250.32	82.93	153.43	333.89
TIME	1.21					

PVC 2.06 FVS 80.89 VVC 517.49	PRV 26.02 FTV 0.00 VRV 96.34	PAP 21.34 FPV 420.25 VAP 160.50	PVP 8.31 FPS 91.17 VVP 252.09	PLV 124.51 FMV 0.00 VLV 80.34	PAO 122.95 FAV 125.61 VAO 153.67	PSC 51.09 FAS 117.13 VSC 333.96
TIME PVC 2.07 FVS 80.89 VVC 519.10	1.23 PRV 26.48 FTV 0.00 VRV 88.26	PAP 22.17 FPV 387.92 VAP 166.71	PVP 8.38 FPS 96.53 VVP 253.95	PLV 124.59 FMV 0.00 VLV 77.87	PAO 123.06 FAV 122.19 VAO 153.81	PSC 51.10 FAS 117.29 VSC 334.02
TIME PVC 2.07 FVS 80.90 VVC 520.72	1.26 PRV 26.70 FTV 0.00 VRV 80.96	PAP 22.88 FPV 344.10 VAP 172.03	PVP 8.44 FPS 101.04 VVP 255.92	PLV 122.66 FMV 0.00 VLV 76.66	PAO 122.16 FAV 40.16 VAO 152.69	PSC 51.11 FAS 115.80 VSC 334.09
TIME PVC 2.09 FVS 80.90 VVC 522.33	1.27 PRV 26.81 FTV 0.00 VRV 74.52	PAP 23.46 FPV 301.26 VAP 176.41	PVP 8.51 FPS 104.64 VVP 257.98	PLV 121.41 FMV 0.00 VLV 75.88	PAO 120.94 FAV 38.21 VAO 151.16	PSC 51.11 FAS 113.81 VSC 334.17
TIME PVC 2.09 FVS 80.91 VVC 523.95	1.30 PRV 26.34 FTV 0.00 VRV 69.35	PAP 23.86 FPV 223.05 VAP 179.46	PVP 8.58 FPS 106.98 VVP 260.10	PLV 117.53 FMV 0.00 VLV 75.82	PAO 119.19 FAV 0.00 VAO 148.97	PSC 51.12 FAS 110.94 VSC 334.23
TIME PVC 2.10 FVS 80.91 VVC 525.57	1.32 PRV 26.14 FTV 0.00 VRV 65.33	PAP 24.11 FPV 181.99 VAP 181.30	PVP 8.65 FPS 108.20 VVP 262.26	PLV 113.72 FMV 0.00 VLV 75.82	PAO 117.43 FAV 0.00 VAO 146.78	PSC 51.13 FAS 108.06 VSC 334.29
TIME PVC 2.10 FVS 80.91 VVC 527.20	1.33 PRV 22.55 FTV 0.00 VRV 64.42	PAP 23.94 FPV 0.00 VAP 180.04	PVP 8.72 FPS 106.53 VVP 264.42	PLV 94.76 FMV 0.00 VLV 75.82	PAO 115.72 FAV 0.00 VAO 144.64	PSC 51.15 FAS 105.26 VSC 334.34
TIME PVC 2.11 FVS 80.91 VVC 528.82	1.36 PRV 19.32 FTV 0.00 VRV 64.42	PAP 23.66 FPV 0.00 VAP 177.93	PVP 8.79 FPS 104.08 VVP 266.53	PLV 75.82 FMV 0.00 VLV 75.82	PAO 114.05 FAV 0.00 VAO 142.57	PSC 51.15 FAS 102.53 VSC 334.39
TIME PVC 2.11 FVS 80.91 VVC 530.43	1.38 PRV 9.83 FTV 0.00 VRV 64.42	PAP 23.39 FPV 0.00 VAP 175.88	PVP 8.86 FPS 101.70 VVP 268.58	PLV 38.38 FMV 0.00 VLV 75.82	PAO 112.44 FAV 0.00 VAO 140.54	PSC 51.16 FAS 99.89 VSC 334.43
TIME PVC 2.12 FVS 80.91 VVC 531.80	1.39 PRV 0.27 FTV 144.36 VRV 64.67	PAP 23.12 FPV 0.00 VAP 173.88	PVP 8.91 FPS 99.43 VVP 270.30	PLV 0.73 FMV 145.77 VLV 76.11	PAO 110.87 FAV 0.00 VAO 138.59	PSC 51.16 FAS 97.32 VSC 334.46
TIME PVC 2.11 FVS 80.93 VVC 530.44	1.42 PRV 0.22 FTV 148.11 VRV 67.66	PAP 22.85 FPV 0.00 VAP 171.90	PVP 8.88 FPS 97.83 VVP 269.27	PLV 0.51 FMV 148.97 VLV 79.12	PAO 109.33 FAV 0.00 VAO 136.66	PSC 51.17 FAS 94.80 VSC 334.49
TIME PVC	1.43 PRV	PAP	PVP	PLV	PAO	PSC

2.11	0.23	22.60	8.85	0.54	107.83	51.17
FVS	FTV	FPV	FPS	FMV	FAV	FAS
80.95	146.93	0.00	96.24	148.02	0.00	92.33
VVC	VRV	VAP	VVP	VLV	VAO	VSC
529.10	70.62	169.95	268.25	82.09	134.78	334.51
TIME	1.45	PAP	PVP	PLV	PAO	PSC
PVC	PRV	22.34	8.81	0.55	106.37	51.17
2.10	0.23	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	94.71	147.07	0.00	89.96
80.96	145.77	VAP	VVP	VLV	VAO	VSC
VVC	VRV	168.04	267.21	85.04	132.96	334.53
527.80	73.55					
TIME	1.48	PAP	PVP	PLV	PAO	PSC
PVC	PRV	22.09	8.78	0.57	104.94	51.17
2.10	0.24	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	93.20	146.09	0.00	87.63
80.97	144.63	VAP	VVP	VLV	VAO	VSC
VVC	VRV	166.16	266.15	87.97	131.18	334.55
526.51	76.45					
TIME	1.49	PAP	PVP	PLV	PAO	PSC
PVC	PRV	21.85	8.74	0.60	103.56	51.17
2.10	0.26	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	91.72	145.14	0.00	85.38
80.98	143.47	VAP	VVP	VLV	VAO	VSC
VVC	VRV	154.31	265.09	90.88	129.44	334.56
525.24	79.33					
TIME	1.51	PAP	PVP	PLV	PAO	PSC
PVC	PRV	21.61	8.70	0.61	102.21	51.18
2.09	0.27	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	90.29	144.16	0.00	83.18
80.99	142.35	VAP	VVP	VLV	VAO	VSC
VVC	VRV	162.49	264.01	93.78	127.76	334.57
524.01	82.19					
TIME	1.54	PAP	PVP	PLV	PAO	PSC
PVC	PRV	21.36	8.67	0.64	100.91	51.18
2.09	0.27	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	88.87	143.19	0.00	81.04
80.99	141.27	VAP	VVP	VLV	VAO	VSC
VVC	VRV	160.70	262.94	96.63	126.12	334.57
522.80	85.01					
TIME	1.55	PAP	PVP	PLV	PAO	PSC
PVC	PRV	21.13	8.63	0.65	99.62	51.18
2.07	0.28	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	87.48	142.24	0.00	78.94
81.01	140.14	VAP	VVP	VLV	VAO	VSC
VVC	VRV	158.93	261.84	99.50	124.51	334.57
521.59	87.84					
TIME	1.57	PAP	PVP	PLV	PAO	PSC
PVC	PRV	20.90	8.59	0.67	98.36	51.17
2.07	0.29	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	86.11	141.22	0.00	76.92
81.02	139.06	VAP	VVP	VLV	VAO	VSC
VVC	VRV	157.20	260.74	102.34	122.96	334.56
520.42	90.64					
TIME	1.60	PAP	PVP	PLV	PAO	PSC
PVC	PRV	20.68	8.56	0.69	97.16	51.17
2.07	0.30	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	84.78	140.25	0.00	74.94
81.02	138.00	VAP	VVP	VLV	VAO	VSC
VVC	VRV	155.48	259.64	105.15	121.44	334.55
519.27	93.41					
TIME	1.61	PAP	PVP	PLV	PAO	PSC
PVC	PRV	20.45	8.52	0.71	95.97	51.17
2.06	0.30	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	83.46	139.27	0.00	73.01
81.02	136.95	VAP	VVP	VLV	VAO	VSC
VVC	VRV	153.80	258.52	107.95	119.96	334.53
518.15	96.16					
TIME	1.64	PAP	PVP	PLV	PAO	PSC
PVC	PRV	20.23	8.48	0.72	94.82	51.17
2.06	0.32	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	82.19	138.29	0.00	71.15
81.03	135.89	VAP	VVP	VLV	VAO	VSC
VVC	VRV	152.16	257.41	110.71	118.53	334.52
517.04	98.86					
TIME	1.65	PAP	PVP	PLV	PAO	PSC
PVC	PRV	20.01	8.45	0.75	93.69	51.17
2.06	0.33					

FVS 81.03 VVC 515.96	FTV 134.88 VRV 101.59	FPV 0.00 VAP 150.53	FPS 80.92 VVP 256.29	FMV 137.29 VLV 113.48	FAV 0.00 VAO 117.11	FAS 69.31 VSC 334.50
TIME PVC 2.05 FVS 81.03 VVC 514.89	1.67 PRV 0.34 FTV 133.86 VRV 104.27	PAP 19.80 FPV 0.00 VAP 148.91	PVP 8.41 FPS 79.69 VVP 255.15	PLV 0.76 FMV 136.31 VLV 116.21	PAO 92.60 FAV 0.00 VAO 115.75	PSC 51.16 FAS 67.54 VSC 334.47
TIME PVC 2.05 FVS 81.03 VVC 513.84	1.70 PRV 0.34 FTV 132.85 VRV 106.93	PAP 19.59 FPV 0.00 VAP 147.33	PVP 8.38 FPS 78.48 VVP 254.02	PLV 0.78 FMV 135.33 VLV 118.93	PAO 91.53 FAV 0.00 VAO 114.42	PSC 51.16 FAS 65.81 VSC 334.45
TIME PVC 2.05 FVS 81.03 VVC 512.82	1.71 PRV 0.35 FTV 131.83 VRV 109.60	PAP 19.39 FPV 0.00 VAP 145.77	PVP 8.34 FPS 77.28 VVP 252.88	PLV 0.79 FMV 134.35 VLV 121.63	PAO 90.49 FAV 0.00 VAO 113.11	PSC 51.16 FAS 64.11 VSC 334.41
TIME PVC 2.04 FVS 81.02 VVC 511.81	1.73 PRV 0.37 FTV 130.82 VRV 112.22	PAP 19.18 FPV 0.00 VAP 144.24	PVP 8.30 FPS 76.12 VVP 251.73	PLV 0.82 FMV 133.35 VLV 124.32	PAO 89.48 FAV 0.00 VAO 111.84	PSC 51.15 FAS 62.46 VSC 334.38
TIME PVC 2.04 FVS 81.02 VVC 510.83	1.76 PRV 0.38 FTV 129.85 VRV 114.82	PAP 18.98 FPV 0.00 VAP 142.73	PVP 8.27 FPS 74.99 VVP 250.59	PLV 0.83 FMV 132.37 VLV 126.95	PAO 88.49 FAV 0.00 VAO 110.61	PSC 51.15 FAS 60.88 VSC 334.34
TIME PVC 2.04 FVS 81.02 VVC 509.86	1.77 PRV 0.38 FTV 128.89 VRV 117.41	PAP 18.77 FPV 0.00 VAP 141.25	PVP 8.23 FPS 73.87 VVP 249.44	PLV 0.84 FMV 131.38 VLV 129.59	PAO 87.54 FAV 0.00 VAO 109.41	PSC 51.13 FAS 59.32 VSC 334.29
TIME PVC 2.03 FVS 81.01 VVC 508.91	1.80 PRV 0.39 FTV 127.94 VRV 119.97	PAP 18.58 FPV 0.00 VAP 139.78	PVP 8.19 FPS 72.77 VVP 248.29	PLV 0.87 FMV 130.41 VLV 132.20	PAO 86.60 FAV 0.00 VAO 108.24	PSC 51.13 FAS 57.81 VSC 334.25
TIME PVC 2.03 FVS 81.01 VVC 507.97	1.82 PRV 0.40 FTV 126.99 VRV 122.53	PAP 18.40 FPV 0.00 VAP 138.33	PVP 8.15 FPS 71.68 VVP 247.13	PLV 0.88 FMV 129.41 VLV 134.81	PAO 85.68 FAV 0.00 VAO 107.09	PSC 51.12 FAS 56.32 VSC 334.20
TIME PVC 2.03 FVS 80.99 VVC 507.07	1.83 PRV 0.40 FTV 126.06 VRV 125.06	PAP 18.20 FPV 0.00 VAP 136.90	PVP 8.11 FPS 70.63 VVP 245.97	PLV 0.90 FMV 128.43 VLV 137.39	PAO 84.79 FAV 0.00 VAO 105.98	PSC 51.11 FAS 54.88 VSC 334.15
TIME PVC 2.01 FVS 80.99 VVC 506.18	1.86 PRV 0.41 FTV 125.11 VRV 127.56	PAP 18.02 FPV 0.00 VAP 135.50	PVP 8.07 FPS 69.59 VVP 244.83	PLV 0.91 FMV 127.48 VLV 139.95	PAO 83.92 FAV 0.00 VAO 104.91	PSC 51.11 FAS 53.49 VSC 334.09
TIME PVC 2.01 FVS	1.88 PRV 0.43 FTV	PAP 17.84 FPV	PVP 8.03 FPS	PLV 0.93 FMV	PAO 83.08 FAV	PSC 51.10 FAS

00.98	124.22	0.00	68.58	126.50	0.00	52.14
VVC	VRV	VAP	VVP	VLV	VAR	VSC
505.31	130.05	134.13	243.67	142.48	103.85	334.04
TIME	1.89					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.01	0.43	17.65	7.99	0.95	82.26	51.09
FVS	FTV	FPV	FPS	FMV	FAV	FAS
80.97	123.31	0.00	67.58	125.53	0.00	50.81
VVC	VRV	VAP	VVP	VLV	VAR	VSC
504.44	132.53	132.77	242.52	145.00	102.82	333.98
TIME	1.92					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.01	0.44	17.47	7.96	0.96	81.46	51.07
FVS	FTV	FPV	FPS	FMV	FAV	FAS
80.96	122.40	0.00	66.59	124.51	0.00	49.50
VVC	VRV	VAP	VVP	VLV	VAR	VSC
503.60	135.00	131.41	241.35	147.51	101.81	333.92
TIME	1.93					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.00	0.45	17.30	7.92	0.98	80.68	51.07
FVS	FTV	FPV	FPS	FMV	FAV	FAS
80.96	121.55	0.00	65.63	123.56	0.00	48.24
VVC	VRV	VAP	VVP	VLV	VAR	VSC
502.78	137.44	130.09	240.19	149.99	100.83	333.86
TIME	1.95					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.00	0.45	17.13	7.89	1.00	79.91	51.06
FVS	FTV	FPV	FPS	FMV	FAV	FAS
80.95	120.05	0.00	64.68	122.58	0.00	47.92
VVC	VRV	VAP	VVP	VLV	VAR	VSC
501.90	139.00	128.00	239.04	152.45	99.09	333.79
TIME	1.98					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.00	0.46	16.96	7.05	1.01	79.16	51.05
FVS	FTV	FPV	FPS	FMV	FAV	FAS
80.93	119.79	0.00	63.75	121.61	0.00	45.81
VVC	VRV	VAP	VVP	VLV	VAR	VSC
501.20	142.27	127.50	237.87	154.91	98.95	333.73

TIME	1.99					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
1.99	0.48	16.78	7.80	1.02	78.44	51.04
FVS	FTV	FPV	FPS	FMV	FAV	FAS
80.92	118.96	0.00	62.84	120.65	0.00	44.65
VVC	VRV	VAP	VVP	VLV	VAO	VSC
500.43	144.65	126.23	236.72	157.32	98.05	333.66
TIME	2.01					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.00	3.84	16.62	7.84	47.46	77.73	51.02
FVS	FTV	FPV	FPS	FMV	FAV	FAS
80.90	0.00	0.00	61.45	0.00	0.00	43.53
VVC	VRV	VAP	VVP	VLV	VAO	VSC
501.48	145.20	125.00	237.76	157.51	97.17	333.58
TIME	2.04					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.00	7.23	16.46	7.89	91.96	80.14	51.01
FVS	FTV	FPV	FPS	FMV	FAV	FAS
80.86	0.00	0.00	60.03	0.00	945.80	47.46
VVC	VRV	VAP	VVP	VLV	VAO	VSC
503.10	145.20	123.78	238.98	153.73	100.16	333.51
TIME	2.05					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.01	10.86	16.30	7.92	106.93	95.15	51.01
FVS	FTV	FPV	FPS	FMV	FAV	FAS
80.84	0.00	0.00	58.65	0.00	942.26	71.95
VVC	VRV	VAP	VVP	VLV	VAO	VSC
504.71	145.20	122.60	240.16	133.78	118.93	333.46
TIME	2.07					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.01	14.51	16.15	7.96	116.84	107.39	51.01
FVS	FTV	FPV	FPS	FMV	FAV	FAS
80.84	0.00	0.00	57.30	0.00	755.74	91.88
VVC	VRV	VAP	VVP	VLV	VAO	VSC
506.34	145.20	121.44	241.32	116.84	134.22	333.47
TIME	2.10					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.03	18.02	16.13	7.99	119.48	114.27	51.01
FVS	FTV	FPV	FPS	FMV	FAV	FAS
80.82	0.00	170.52	56.91	0.00	416.50	103.10
VVC	VRV	VAP	VVP	VLV	VAO	VSC
507.96	144.21	121.30	242.46	106.20	142.84	333.49
TIME	2.11					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.03	20.80	16.71	8.03	123.17	118.70	51.02
FVS	FTV	FPV	FPS	FMV	FAV	FAS
80.84	0.00	368.04	60.73	0.00	357.79	110.30
VVC	VRV	VAP	VVP	VLV	VAO	VSC
509.57	138.69	125.69	243.63	98.54	148.36	333.56
TIME	2.14					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.04	22.20	17.59	8.08	123.72	121.01	51.04
FVS	FTV	FPV	FPS	FMV	FAV	FAS
80.84	0.00	416.03	66.58	0.00	217.04	114.05
VVC	VRV	VAP	VVP	VLV	VAO	VSC
511.17	130.84	132.28	244.89	93.41	151.24	333.62
TIME	2.15					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.05	23.23	18.53	8.12	124.95	122.46	51.04
FVS	FTV	FPV	FPS	FMV	FAV	FAS
80.85	0.00	423.32	72.81	0.00	199.83	116.39
VVC	VRV	VAP	VVP	VLV	VAO	VSC
512.79	122.40	139.33	246.28	89.28	153.06	333.68
TIME	2.17					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.05	24.41	19.48	8.17	124.87	123.10	51.05
FVS	FTV	FPV	FPS	FMV	FAV	FAS
80.85	0.00	443.70	79.18	0.00	141.72	117.43
VVC	VRV	VAP	VVP	VLV	VAO	VSC
514.40	113.66	146.54	247.80	86.13	153.87	333.75
TIME	2.20					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.06	25.17	20.42	8.23	125.09	123.40	51.06
FVS	FTV	FPV	FPS	FMV	FAV	FAS
80.86	0.00	427.16	85.40	0.00	134.76	117.91
VVC	VRV	VAP	VVP	VLV	VAO	VSC
516.03	104.92	153.64	249.45	83.39	154.25	333.83
TIME	2.21					

PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.06	26.02	21.33	8.29	125.21	123.60	51.07
FVS	FTV	FPV	FPS	FMV	FAV	FAS
80.86	0.00	421.60	91.31	0.00	128.05	118.21
VVC	VRV	VAP	VVP	VLV	VAO	VSC
517.65	96.36	160.43	251.22	80.78	154.49	333.90

TIME	2.23	PAP	PVP	PLV	PAO	PSC
PVC	PRV	22.17	8.35	125.23	123.71	51.09
2.07	26.47	FPV	FPS	FMV	FAV	FAS
FVS	FTV	387.12	96.71	0.00	121.95	118.36
80.87	0.00	VAP	VVP	VLV	VAO	VSC
VVC	VRV	166.67	253.11	78.27	154.63	333.98
519.27	88.21					

TIME	2.26	PAP	PVP	PLV	PAO	PSC
PVC	PRV	22.86	8.41	123.31	122.79	51.10
2.07	26.70	FPV	FPS	FMV	FAV	FAS
FVS	FTV	344.65	101.17	0.00	40.89	116.86
80.89	0.00	VAP	VVP	VLV	VAO	VSC
VVC	VRV	171.97	255.08	77.06	153.49	334.04
520.87	80.95					

TIME	2.27	PAP	PVP	PLV	PAO	PSC
PVC	PRV	23.45	8.48	122.05	121.57	51.11
2.09	26.79	FPV	FPS	FMV	FAV	FAS
FVS	FTV	301.12	104.78	0.00	38.45	114.84
80.89	0.00	VAP	VVP	VLV	VAO	VSC
VVC	VRV	176.36	257.14	76.28	151.95	334.12
522.50	74.50					

TIME	2.30	PAP	PVP	PLV	PAO	PSC
PVC	PRV	23.85	8.54	118.14	119.80	51.12
2.09	26.44	FPV	FPS	FMV	FAV	FAS
FVS	FTV	222.99	107.12	0.00	0.00	111.95
80.90	0.00	VAP	VVP	VLV	VAO	VSC
VVC	VRV	179.40	259.26	76.21	149.74	334.18
524.11	69.32					

TIME	2.32	PAP	PVP	PLV	PAO	PSC
PVC	PRV	24.10	8.62	114.32	118.03	51.12
2.10	26.12	FPV	FPS	FMV	FAV	FAS
FVS	FTV	181.79	108.35	0.00	0.00	109.05
80.90	0.00	VAP	VVP	VLV	VAO	VSC
VVC	VRV	181.25	261.43	76.21	147.54	334.24
525.74	65.31					

TIME	2.33	PAP	PVP	PLV	PAO	PSC
PVC	PRV	23.92	8.69	95.26	116.30	51.13
2.10	22.55	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	106.67	0.00	0.00	106.22
80.90	0.00	VAP	VVP	VLV	VAO	VSC
VVC	VRV	179.98	263.59	76.21	145.37	334.30
527.36	64.39					

TIME	2.36	PAP	PVP	PLV	PAO	PSC
PVC	PRV	23.65	8.76	76.21	114.62	51.15
2.11	19.32	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	104.21	0.00	0.00	103.48
80.90	0.00	VAP	VVP	VLV	VAO	VSC
VVC	VRV	177.87	265.68	76.21	143.29	334.35
528.98	64.39					

TIME	2.37	PAP	PVP	PLV	PAO	PSC
PVC	PRV	23.38	8.83	38.59	113.00	51.15
2.11	0.03	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	101.83	0.00	0.00	100.81
80.91	0.00	VAP	VVP	VLV	VAO	VSC
VVC	VRV	175.82	267.74	76.21	141.25	334.39
530.59	64.39					

TIME	2.39	PAP	PVP	PLV	PAO	PSC
PVC	PRV	23.11	8.89	0.73	111.40	51.16
2.12	0.27	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	99.55	145.25	0.00	98.20
80.90	144.42	VAP	VVP	VLV	VAO	VSC
VVC	VRV	173.80	269.47	76.51	139.25	334.43
531.95	64.67					

TIME	2.42	PAP	PVP	PLV	PAO	PSC
PVC	PRV	22.85	8.85	0.51	109.85	51.16
2.11	0.22	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	97.95	148.46	0.00	95.67
80.92	148.17	VAP	VVP	VLV	VAO	VSC
VVC	VRV	171.83	268.47	79.49	137.32	334.46
530.60	67.64					

TIME	2.43	PAP	PVP	PLV	PAO	PSC
PVC	PRV					

2.11	0.23	22.58	8.83	0.54	108.34	51.16
FVS	FTV	FPV	FPS	FMV	FAV	FAS
80.93	146.95	0.00	96.37	147.51	0.00	93.19
VVC	VRV	VAP	VVP	VLV	VAO	VSC
529.26	70.61	169.89	267.44	82.46	135.41	334.49
TIME	2.46	PAP	PVP	PLV	PAO	PSC
PVC	PRV	22.33	8.79	0.56	106.86	51.17
2.11	0.23	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	94.82	146.56	0.00	90.77
80.95	145.83	VAP	VVP	VLV	VAO	VSC
VVC	VRV	167.96	266.42	85.41	133.57	334.51
527.94	73.55					
TIME	2.48	PAP	PVP	PLV	PAO	PSC
PVC	PRV	22.08	8.75	0.57	105.43	51.17
2.10	0.24	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	93.31	145.61	0.00	88.43
80.96	144.67	VAP	VVP	VLV	VAO	VSC
VVC	VRV	166.08	265.37	88.33	131.77	334.52
526.66	76.45					
TIME	2.49	PAP	PVP	PLV	PAO	PSC
PVC	PRV	21.84	8.72	0.60	104.04	51.17
2.10	0.26	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	91.83	144.63	0.00	86.16
80.97	143.53	VAP	VVP	VLV	VAO	VSC
VVC	VRV	164.23	264.33	91.22	130.04	334.53
525.40	79.32					
TIME	2.52	PAP	PVP	PLV	PAO	PSC
PVC	PRV	21.59	8.68	0.61	102.68	51.17
2.09	0.27	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	90.38	143.68	0.00	83.94
80.98	142.39	VAP	VVP	VLV	VAO	VSC
VVC	VRV	162.41	263.27	94.10	128.34	334.55
524.16	82.18					
TIME	2.54	PAP	PVP	PLV	PAO	PSC
PVC	PRV	21.35	8.64	0.64	101.34	51.17
2.09	0.27	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	88.95	142.73	0.00	81.77
80.99	141.30	VAP	VVP	VLV	VAO	VSC
VVC	VRV	160.62	262.19	96.97	126.67	334.55
522.94	85.02					
TIME	2.55	PAP	PVP	PLV	PAO	PSC
PVC	PRV	21.12	8.60	0.65	100.06	51.17
2.07	0.28	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	87.56	141.75	0.00	79.66
81.01	140.22	VAP	VVP	VLV	VAO	VSC
VVC	VRV	158.85	261.12	99.82	125.06	334.55
521.75	87.83					
TIME	2.58	PAP	PVP	PLV	PAO	PSC
PVC	PRV	20.89	8.57	0.67	98.80	51.17
2.07	0.29	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	86.20	140.77	0.00	77.62
81.01	139.10	VAP	VVP	VLV	VAO	VSC
VVC	VRV	157.12	260.04	102.64	123.50	334.55
520.58	90.62					
TIME	2.60	PAP	PVP	PLV	PAO	PSC
PVC	PRV	20.67	8.54	0.69	97.57	51.17
2.07	0.30	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	84.85	139.82	0.00	75.61
81.02	138.03	VAP	VVP	VLV	VAO	VSC
VVC	VRV	155.39	258.93	105.46	121.95	334.53
519.42	93.41					
TIME	2.61	PAP	PVP	PLV	PAO	PSC
PVC	PRV	20.43	8.51	0.71	96.37	51.17
2.06	0.30	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	83.54	138.83	0.00	73.68
81.02	136.99	VAP	VVP	VLV	VAO	VSC
VVC	VRV	153.72	257.83	108.24	120.47	334.52
518.29	96.14					
TIME	2.64	PAP	PVP	PLV	PAO	PSC
PVC	PRV	20.22	8.47	0.72	95.21	51.17
2.06	0.32	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	82.26	137.85	0.00	71.79
81.02	135.94	VAP	VVP	VLV	VAO	VSC
VVC	VRV	152.06	256.73	111.00	119.01	334.51
517.19	98.88					
TIME	2.65	PAP	PVP	PLV	PAO	PSC
PVC	PRV	20.00	8.44	0.75	94.08	51.17
2.06	0.33					

FVS	FTV	FPV	FPS	FMV	FAV	FAS
81.02	134.90	0.00	80.99	136.88	0.00	69.95
VVC	VRV	VAP	VVP	VLV	VAO	VSC
516.10	101.59	150.43	255.60	113.75	117.59	334.49
TIME	2.67					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.05	0.34	19.79	8.40	0.76	92.98	51.16
FVS	FTV	FPV	FPS	FMV	FAV	FAS
81.02	133.89	0.00	79.76	135.90	0.00	68.15
VVC	VRV	VAP	VVP	VLV	VAO	VSC
515.03	104.27	148.82	254.49	116.47	116.21	334.46
TIME	2.70					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.05	0.34	19.58	8.35	0.78	91.89	51.16
FVS	FTV	FPV	FPS	FMV	FAV	FAS
81.02	132.87	0.00	78.54	134.92	0.00	66.41
VVC	VRV	VAP	VVP	VLV	VAO	VSC
513.98	106.93	147.24	253.37	119.18	114.87	334.44
TIME	2.71					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.05	0.35	19.37	8.31	0.79	90.85	51.15
FVS	FTV	FPV	FPS	FMV	FAV	FAS
81.02	131.90	0.00	77.35	133.95	0.00	64.70
VVC	VRV	VAP	VVP	VLV	VAO	VSC
512.95	109.60	145.68	252.23	121.87	113.55	334.40
TIME	2.73					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.04	0.37	19.16	8.28	0.82	89.83	51.15
FVS	FTV	FPV	FPS	FMV	FAV	FAS
81.02	130.88	0.00	76.19	132.93	0.00	63.04
VVC	VRV	VAP	VVP	VLV	VAO	VSC
511.95	112.22	144.14	251.10	124.55	112.28	334.36
TIME	2.76					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.04	0.38	18.97	8.24	0.83	88.83	51.15
FVS	FTV	FPV	FPS	FMV	FAV	FAS
81.02	129.91	0.00	75.04	131.98	0.00	61.43
VVC	VRV	VAP	VVP	VLV	VAO	VSC
510.96	114.82	142.64	249.96	127.18	111.04	334.33
TIME	2.77					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.04	0.38	18.76	8.20	0.85	87.87	51.13
FVS	FTV	FPV	FPS	FMV	FAV	FAS
81.02	128.92	0.00	73.91	131.01	0.00	59.86
VVC	VRV	VAP	VVP	VLV	VAO	VSC
510.00	117.41	141.15	248.83	129.81	109.83	334.29
TIME	2.79					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.03	0.39	18.57	8.17	0.87	86.91	51.12
FVS	FTV	FPV	FPS	FMV	FAV	FAS
81.01	127.97	0.00	72.81	130.00	0.00	58.33
VVC	VRV	VAP	VVP	VLV	VAO	VSC
509.05	119.97	139.67	247.68	132.42	108.64	334.24
TIME	2.82					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.03	0.40	18.39	8.13	0.88	85.99	51.12
FVS	FTV	FPV	FPS	FMV	FAV	FAS
81.01	127.05	0.00	71.73	129.03	0.00	56.84
VVC	VRV	VAP	VVP	VLV	VAO	VSC
508.11	122.53	138.22	246.54	135.02	107.48	334.20
TIME	2.83					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.03	0.40	18.19	8.09	0.90	85.10	51.11
FVS	FTV	FPV	FPS	FMV	FAV	FAS
80.99	126.10	0.00	70.67	128.08	0.00	55.38
VVC	VRV	VAP	VVP	VLV	VAO	VSC
507.20	125.06	136.81	245.39	137.60	106.36	334.15
TIME	2.86					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.01	0.41	18.00	8.06	0.91	84.22	51.11
FVS	FTV	FPV	FPS	FMV	FAV	FAS
80.99	125.17	0.00	69.63	127.10	0.00	53.97
VVC	VRV	VAP	VVP	VLV	VAO	VSC
506.30	127.59	135.39	244.23	140.16	105.26	334.09
TIME	2.87					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.01	0.43	17.82	8.02	0.94	83.36	51.10
FVS	FTV	FPV	FPS	FMV	FAV	FAS

80.98	124.28	0.00	68.62	126.12	0.00	52.59
VVC	VRV	VAP	VVP	VLV	VAD	VSC
505.43	130.06	134.02	243.09	142.68	104.20	334.04
TIME	2.89	PAP	PVP	PLV	PAO	PSC
PVC	PRV	17.64	7.98	0.95	82.53	51.09
2.01	0.43	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	67.60	125.14	0.00	51.26
80.97	123.35	VAP	VVP	VLV	VAD	VSC
VVC	VRV	132.65	241.93	145.19	103.16	333.98
504.58	132.54					
TIME	2.92	PAP	PVP	PLV	PAO	PSC
PVC	PRV	17.45	7.93	0.96	81.72	51.07
2.01	0.44	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	66.63	124.16	0.00	49.95
80.96	122.46	VAP	VVP	VLV	VAD	VSC
VVC	VRV	131.31	240.78	147.68	102.16	333.92
503.74	135.00					
TIME	2.93	PAP	PVP	PLV	PAO	PSC
PVC	PRV	17.29	7.90	0.99	80.95	51.07
2.00	0.45	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	65.66	123.21	0.00	48.68
80.96	121.57	VAP	VVP	VLV	VAD	VSC
VVC	VRV	129.99	239.64	150.15	101.17	333.86
502.92	137.44					
TIME	2.96	PAP	PVP	PLV	PAO	PSC
PVC	PRV	17.12	7.86	1.00	80.16	51.06
2.00	0.45	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	64.71	122.23	0.00	47.44
80.95	120.70	VAP	VVP	VLV	VAD	VSC
VVC	VRV	128.69	238.48	152.61	100.21	333.00
502.11	130.87					
TIME	2.98	PAP	PVP	PLV	PAO	PSC
PVC	PRV	16.94	7.83	1.01	79.42	51.05
2.00	0.46	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	63.77	121.31	0.00	46.23
80.93	119.85	VAP	VVP	VLV	VAD	VSC
VVC	VRV	127.39	237.33	155.05	99.27	333.73
501.32	142.27					

TIME	2.99					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.00	0.48	16.77	7.79	1.04	78.69	51.04
FVS	FTV	FPV	FPS	FMV	FAV	FAS
80.92	118.98	0.00	62.87	120.33	0.00	45.06
VVC	VRV	VAP	VVP	VLV	VAO	VSC
500.55	144.67	126.14	236.18	157.46	98.35	333.66
TIME	3.02					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.00	3.84	16.60	7.83	47.51	77.98	51.02
FVS	FTV	FPV	FPS	FMV	FAV	FAS
80.90	0.00	0.00	61.46	0.00	0.00	43.92
VVC	VRV	VAP	VVP	VLV	VAO	VSC
501.60	145.22	124.89	237.22	157.65	97.47	333.58
TIME	3.04					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.00	7.23	16.44	7.86	92.07	80.34	51.01
FVS	FTV	FPV	FPS	FMV	FAV	FAS
80.86	0.00	0.00	60.06	0.00	937.74	47.79
VVC	VRV	VAP	VVP	VLV	VAO	VSC
503.22	145.22	123.67	238.44	153.92	100.42	333.51
TIME	3.05					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.01	10.86	16.28	7.90	107.17	95.26	51.01
FVS	FTV	FPV	FPS	FMV	FAV	FAS
80.84	0.00	0.00	58.68	0.00	951.66	72.13
VVC	VRV	VAP	VVP	VLV	VAO	VSC
504.84	145.22	122.48	239.62	134.07	119.08	333.47
TIME	3.08					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.01	14.51	16.13	7.93	117.00	107.58	51.01
FVS	FTV	FPV	FPS	FMV	FAV	FAS
80.84	0.00	0.00	57.33	0.00	754.27	92.20
VVC	VRV	VAP	VVP	VLV	VAO	VSC
506.46	145.22	121.33	240.78	117.00	134.46	333.47
TIME	3.09					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.03	18.02	16.11	7.98	119.73	114.44	51.01
FVS	FTV	FPV	FPS	FMV	FAV	FAS
80.82	0.00	171.96	56.93	0.00	423.46	103.37
VVC	VRV	VAP	VVP	VLV	VAO	VSC
508.07	144.22	121.19	241.92	106.43	143.04	333.51
TIME	3.11					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.04	20.80	16.70	8.02	123.38	118.90	51.02
FVS	FTV	FPV	FPS	FMV	FAV	FAS
80.81	0.00	368.65	60.78	0.00	357.91	110.63
VVC	VRV	VAP	VVP	VLV	VAO	VSC
509.69	138.66	120.61	243.10	98.69	148.62	333.56
TIME	3.14					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.04	22.20	17.58	8.06	123.92	121.20	51.04
FVS	FTV	FPV	FPS	FMV	FAV	FAS
80.84	0.00	416.31	66.64	0.00	217.16	114.37
VVC	VRV	VAP	VVP	VLV	VAO	VSC
511.31	130.80	132.22	244.36	93.55	151.50	333.63
TIME	3.15					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.05	23.22	18.52	8.11	125.16	122.66	51.05
FVS	FTV	FPV	FPS	FMV	FAV	FAS
80.85	0.00	423.24	72.87	0.00	199.71	116.72
VVC	VRV	VAP	VVP	VLV	VAO	VSC
512.92	122.35	139.27	245.75	89.43	153.32	333.69
TIME	3.17					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.05	24.40	19.48	8.15	125.08	123.31	51.05
FVS	FTV	FPV	FPS	FMV	FAV	FAS
80.85	0.00	443.53	79.25	0.00	141.72	117.75
VVC	VRV	VAP	VVP	VLV	VAO	VSC
514.54	113.61	146.40	247.28	86.27	154.11	333.77
TIME	3.20					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.06	25.16	20.42	8.20	125.29	123.61	51.06
FVS	FTV	FPV	FPS	FMV	FAV	FAS
80.86	0.00	426.92	85.47	0.00	134.76	118.22
VVC	VRV	VAP	VVP	VLV	VAO	VSC
516.16	104.87	153.58	248.93	83.52	154.51	333.84
TIME	3.21					

PVC 2.06 FVS 90.87 VVC 517.78	PRV 26.00 FTV 0.00 VRV 96.31	PAP 21.33 FPV 421.12 VAP 160.36	PVP 8.27 FPS 91.38 VVP 250.71	PLV 125.40 FMV 0.00 VLV 80.91	PAO 123.80 FAV 127.68 VAO 154.75	PSC 51.07 FAS 118.53 VSC 333.91
TIME PVC 2.07 FVS 90.87 VVC 519.40	3.23 PRV 26.45 FTV 0.00 VRV 88.17	PAP 22.15 FPV 386.78 VAP 166.61	PVP 8.33 FPS 96.75 VVP 252.59	PLV 125.43 FMV 0.00 VLV 78.39	PAO 123.90 FAV 121.95 VAO 154.87	PSC 51.09 FAS 118.68 VSC 334.00
TIME PVC 2.07 FVS 90.89 VVC 521.01	3.26 PRV 26.69 FTV 0.00 VRV 80.91	PAP 22.85 FPV 344.35 VAP 171.90	PVP 8.40 FPS 101.23 VVP 254.55	PLV 123.50 FMV 0.00 VLV 77.19	PAO 122.98 FAV 41.01 VAO 153.72	PSC 51.10 FAS 117.17 VSC 334.06
TIME PVC 2.09 FVS 90.90 VVC 522.62	3.27 PRV 26.78 FTV 0.00 VRV 74.46	PAP 23.44 FPV 300.84 VAP 176.28	PVP 8.46 FPS 104.83 VVP 256.62	PLV 122.24 FMV 0.00 VLV 76.40	PAO 121.75 FAV 38.57 VAO 152.19	PSC 51.11 FAS 115.15 VSC 334.13
TIME PVC 2.09 FVS 90.90 VVC 524.25	3.29 PRV 26.32 FTV 0.00 VRV 69.29	PAP 23.84 FPV 222.78 VAP 179.32	PVP 8.53 FPS 107.17 VVP 258.74	PLV 118.32 FMV 0.00 VLV 76.33	PAO 119.98 FAV 0.00 VAO 149.98	PSC 51.12 FAS 112.24 VSC 334.20
TIME PVC 2.10 FVS 90.90 VVC 525.87	3.31 PRV 26.11 FTV 0.00 VRV 65.27	PAP 24.08 FPV 181.51 VAP 181.18	PVP 8.60 FPS 108.39 VVP 260.91	PLV 114.50 FMV 0.00 VLV 76.33	PAO 118.21 FAV 0.00 VAO 147.75	PSC 51.13 FAS 109.33 VSC 334.27
TIME PVC 2.10 FVS 90.91 VVC 527.49	3.33 PRV 22.54 FTV 0.00 VRV 64.37	PAP 23.92 FPV 0.00 VAP 179.90	PVP 8.68 FPS 106.70 VVP 263.08	PLV 95.41 FMV 0.00 VLV 76.33	PAO 116.48 FAV 0.00 VAO 145.59	PSC 51.13 FAS 106.49 VSC 334.32
TIME PVC 2.11 FVS 90.91 VVC 529.10	3.36 PRV 19.31 FTV 0.00 VRV 64.37	PAP 23.65 FPV 0.00 VAP 177.79	PVP 8.74 FPS 104.26 VVP 265.17	PLV 76.33 FMV 0.00 VLV 76.33	PAO 114.81 FAV 0.00 VAO 143.49	PSC 51.15 FAS 103.75 VSC 334.36
TIME PVC 2.11 FVS 90.91 VVC 530.71	3.37 PRV 9.81 FTV 0.00 VRV 64.37	PAP 23.36 FPV 0.00 VAP 175.73	PVP 8.81 FPS 101.87 VVP 267.23	PLV 38.65 FMV 0.00 VLV 76.33	PAO 113.17 FAV 0.00 VAO 141.46	PSC 51.15 FAS 101.09 VSC 334.40
TIME PVC 2.12 FVS 90.91 VVC 532.08	3.39 PRV 0.27 FTV 144.46 VRV 64.65	PAP 23.10 FPV 0.00 VAP 173.72	PVP 8.88 FPS 99.60 VVP 268.96	PLV 0.73 FMV 144.90 VLV 76.64	PAO 111.57 FAV 0.00 VAO 139.45	PSC 51.16 FAS 98.46 VSC 334.45
TIME PVC 2.11 FVS 90.92 VVC 530.73	3.42 PRV 0.22 FTV 148.21 VRV 67.61	PAP 22.84 FPV 0.00 VAP 171.74	PVP 8.84 FPS 97.99 VVP 267.96	PLV 0.51 FMV 148.16 VLV 79.60	PAO 110.01 FAV 0.00 VAO 137.51	PSC 51.16 FAS 95.92 VSC 334.47
TIME PVC	3.43 PRV	PAP	PVP	PLV	PAO	PSC

2.11	0.23	22.57	8.80	0.54	108.50	51.17
FVS	FTV	FPV	FPS	FMV	FAV	FAS
80.95	147.05	0.00	96.40	147.20	0.00	93.43
VVC	VRV	VAP	VVP	VLV	VAO	VSC
529.38	70.58	169.79	266.94	82.57	135.61	334.50
TIME	3.45	PAP	PVP	PLV	PAO	PSC
PVC	PRV	22.33	8.76	0.56	107.02	51.17
2.11	0.23	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	94.86	146.25	0.00	91.03
80.96	145.85	VAP	VVP	VLV	VAO	VSC
VVC	VRV	167.88	265.93	85.50	133.76	334.52
528.07	73.50					
TIME	3.48	PAP	PVP	PLV	PAO	PSC
PVC	PRV	22.07	8.74	0.57	105.58	51.17
2.10	0.24	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	93.35	145.34	0.00	88.67
80.97	144.73	VAP	VVP	VLV	VAO	VSC
VVC	VRV	166.00	264.89	88.42	131.97	334.55
526.78	76.41					
TIME	3.49	PAP	PVP	PLV	PAO	PSC
PVC	PRV	21.83	8.70	0.60	104.17	51.17
2.10	0.26	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	91.86	144.35	0.00	86.39
80.98	143.55	VAP	VVP	VLV	VAO	VSC
VVC	VRV	164.15	263.84	91.32	130.21	334.56
525.53	79.30					
TIME	3.52	PAP	PVP	PLV	PAO	PSC
PVC	PRV	21.58	8.67	0.61	102.02	51.18
2.09	0.27	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	90.42	143.40	0.00	84.17
80.99	142.45	VAP	VVP	VLV	VAO	VSC
VVC	VRV	162.33	262.79	94.18	128.53	334.57
524.29	82.14					
TIME	3.53	PAP	PVP	PLV	PAO	PSC
PVC	PRV	21.35	8.63	0.64	101.49	51.18
2.09	0.27	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	88.99	142.42	0.00	82.01
80.99	141.36	VAP	VVP	VLV	VAO	VSC
VVC	VRV	160.54	261.73	97.03	126.86	334.57
523.07	84.99					
TIME	3.55	PAP	PVP	PLV	PAO	PSC
PVC	PRV	21.11	8.59	0.65	100.18	51.18
2.09	0.28	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	87.58	141.47	0.00	79.88
81.01	140.26	VAP	VVP	VLV	VAO	VSC
VVC	VRV	158.77	260.66	99.89	125.23	334.57
521.86	87.82					
TIME	3.58	PAP	PVP	PLV	PAO	PSC
PVC	PRV	20.87	8.56	0.67	98.93	51.18
2.07	0.29	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	86.22	140.49	0.00	77.82
81.02	139.19	VAP	VVP	VLV	VAO	VSC
VVC	VRV	157.02	259.57	102.71	123.66	334.57
520.69	90.61					
TIME	3.59	PAP	PVP	PLV	PAO	PSC
PVC	PRV	20.66	8.52	0.69	97.69	51.17
2.07	0.30	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	84.88	139.54	0.00	75.82
81.02	138.11	VAP	VVP	VLV	VAO	VSC
VVC	VRV	155.31	258.48	105.51	122.12	334.56
519.55	93.38					
TIME	3.62	PAP	PVP	PLV	PAO	PSC
PVC	PRV	20.42	8.48	0.71	96.50	51.17
2.06	0.30	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	83.56	138.56	0.00	73.88
81.02	137.05	VAP	VVP	VLV	VAO	VSC
VVC	VRV	153.62	257.38	108.30	120.62	334.55
518.41	96.13					
TIME	3.64	PAP	PVP	PLV	PAO	PSC
PVC	PRV	20.20	8.45	0.72	95.34	51.17
2.06	0.32	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	82.27	137.61	0.00	71.99
81.03	135.97	VAP	VVP	VLV	VAO	VSC
VVC	VRV	151.98	256.29	111.04	119.17	334.53
517.31	98.84					
TIME	3.65	PAP	PVP	PLV	PAO	PSC
PVC	PRV	19.98	8.41	0.75	94.20	51.17
2.06	0.33					

FVS 81.03 VVC 516.21	FTV 134.96 VRV 101.58	FPV 0.00 VAP 150.34	FPS 81.01 VVP 255.18	FMV 136.61 VLV 113.80	FAV 0.00 VAO 117.74	FAS 70.13 VSC 334.51
TIME PVC 2.05 FVS 81.03 VVC 515.14	3.68 PRV 0.34 FTV 133.93 VRV 104.26	PAP 19.77 FPV 0.00 VAP 148.73	PVP 8.38 FPS 79.77 VVP 254.07	PLV 0.76 FMV 135.63 VLV 116.51	PAO 93.09 FAV 0.00 VAO 116.36	PSC 51.16 FAS 68.34 VSC 334.49
TIME PVC 2.05 FVS 81.03 VVC 514.10	3.70 PRV 0.34 FTV 132.91 VRV 106.92	PAP 19.57 FPV 0.00 VAP 147.14	PVP 8.34 FPS 78.55 VVP 252.94	PLV 0.78 FMV 134.66 VLV 119.23	PAO 92.01 FAV 0.00 VAO 115.00	PSC 51.16 FAS 66.58 VSC 334.46
TIME PVC 2.05 FVS 81.03 VVC 513.06	3.71 PRV 0.35 FTV 131.92 VRV 109.58	PAP 19.36 FPV 0.00 VAP 145.58	PVP 8.30 FPS 77.36 VVP 251.81	PLV 0.79 FMV 133.70 VLV 121.91	PAO 90.96 FAV 0.00 VAO 113.68	PSC 51.16 FAS 64.87 VSC 334.43
TIME PVC 2.04 FVS 81.03 VVC 512.06	3.74 PRV 0.37 FTV 130.92 VRV 112.21	PAP 19.15 FPV 0.00 VAP 144.04	PVP 8.27 FPS 76.20 VVP 250.69	PLV 0.82 FMV 132.69 VLV 124.57	PAO 89.93 FAV 0.00 VAO 112.40	PSC 51.15 FAS 63.21 VSC 334.39
TIME PVC 2.04 FVS 81.02 VVC 511.07	3.76 PRV 0.37 FTV 129.97 VRV 114.81	PAP 18.96 FPV 0.00 VAP 142.54	PVP 8.23 FPS 75.05 VVP 249.56	PLV 0.83 FMV 131.74 VLV 127.21	PAO 88.94 FAV 0.00 VAO 111.17	PSC 51.15 FAS 61.60 VSC 334.35
TIME PVC 2.04 FVS 81.02 VVC 510.11	3.77 PRV 0.38 FTV 128.98 VRV 117.40	PAP 18.75 FPV 0.00 VAP 141.05	PVP 8.19 FPS 73.93 VVP 248.43	PLV 0.85 FMV 130.76 VLV 129.84	PAO 87.97 FAV 0.00 VAO 109.95	PSC 51.13 FAS 60.01 VSC 334.32
TIME PVC 2.03 FVS 81.02 VVC 509.15	3.80 PRV 0.39 FTV 128.03 VRV 119.96	PAP 18.55 FPV 0.00 VAP 139.59	PVP 8.15 FPS 72.81 VVP 247.29	PLV 0.87 FMV 129.79 VLV 132.43	PAO 87.01 FAV 0.00 VAO 108.76	PSC 51.13 FAS 58.49 VSC 334.28
TIME PVC 2.03 FVS 81.01 VVC 508.23	3.81 PRV 0.40 FTV 127.07 VRV 122.51	PAP 18.37 FPV 0.00 VAP 138.14	PVP 8.12 FPS 71.74 VVP 246.14	PLV 0.88 FMV 128.81 VLV 135.02	PAO 86.10 FAV 0.00 VAO 107.60	PSC 51.12 FAS 56.98 VSC 334.23
TIME PVC 2.03 FVS 81.01 VVC 507.31	3.83 PRV 0.40 FTV 126.12 VRV 125.05	PAP 18.18 FPV 0.00 VAP 136.71	PVP 8.08 FPS 70.68 VVP 244.99	PLV 0.90 FMV 127.83 VLV 137.60	PAO 85.19 FAV 0.00 VAO 106.48	PSC 51.12 FAS 55.53 VSC 334.18
TIME PVC 2.01 FVS 80.99 VVC 506.41	3.86 PRV 0.41 FTV 125.21 VRV 127.58	PAP 17.99 FPV 0.00 VAP 135.30	PVP 8.04 FPS 69.63 VVP 243.85	PLV 0.91 FMV 126.86 VLV 140.15	PAO 84.30 FAV 0.00 VAO 105.38	PSC 51.11 FAS 54.10 VSC 334.12
TIME PVC 2.01 FVS	3.87 PRV 0.43 FTV	PAP 17.81 FPV	PVP 8.01 FPS	PLV 0.94 FMV	PAO 83.46 FAV	PSC 51.10 FAS

80.98	124.30	0.00	68.62	125.90	0.00	52.73
VVC	VRV	VAP	VVP	VLV	VAR	VSC
505.54	130.05	133.93	242.71	142.66	104.32	334.07
TIME	3.89	PAP	PVP	PLV	PAO	PSC
PVC	PRV	17.63	7.97	0.95	82.63	51.10
2.01	0.43	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	67.60	124.93	0.00	51.39
80.98	123.39	VAP	VVP	VLV	VAR	VSC
VVC	VRV	132.57	241.56	145.18	103.27	334.01
504.69	132.53					
TIME	3.92	PAP	PVP	PLV	PAO	PSC
PVC	PRV	17.44	7.92	0.96	81.81	51.09
2.01	0.44	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	66.63	123.98	0.00	50.09
80.97	122.50	VAP	VVP	VLV	VAR	VSC
VVC	VRV	131.22	240.42	147.66	102.26	333.95
503.84	134.99					
TIME	3.93	PAP	PVP	PLV	PAO	PSC
PVC	PRV	17.27	7.89	0.99	81.02	51.07
2.00	0.45	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	65.65	123.00	0.00	48.80
80.96	121.61	VAP	VVP	VLV	VAR	VSC
VVC	VRV	129.90	239.27	150.15	101.27	333.89
503.02	137.44					
TIME	3.95	PAP	PVP	PLV	PAO	PSC
PVC	PRV	17.10	7.85	1.00	80.25	51.05
2.00	0.45	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	64.71	122.00	0.00	47.81
80.95	120.74	VAP	VVP	VLV	VAR	VSC
VVC	VRV	128.81	238.12	149.05	100.21	333.80
502.21	135.00					
TIME	3.98	PAP	PVP	PLV	PAO	PSC
PVC	PRV	16.93	7.81	1.01	79.49	51.05
2.00	0.48	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	63.77	121.09	0.00	46.36
80.93	119.87	VAP	VVP	VLV	VAR	VSC
VVC	VRV	127.31	236.98	155.02	99.36	333.75
501.43	142.26					

TIME	3.99	PAP	PVP	PLV	PAO	PSC
PVC	PRV	16.76	7.78	1.04	78.76	51.04
2.00	0.48	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	62.85	120.12	0.00	45.18
80.92	119.04	VAP	VVP	VLV	VAD	VSC
VVC	VRV	126.04	235.83	157.45	98.45	333.69
500.66	144.67					
TIME	4.02	PAP	PVP	PLV	PAO	PSC
PVC	PRV	16.59	7.81	47.50	78.05	51.04
2.00	3.84	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	61.46	0.00	0.00	44.04
80.90	0.00	VAP	VVP	VLV	VAD	VSC
VVC	VRV	124.80	236.88	157.62	97.56	333.62
501.71	145.22					
TIME	4.03	PAP	PVP	PLV	PAO	PSC
PVC	PRV	16.43	7.85	92.08	80.36	51.02
2.00	7.23	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	60.05	0.00	937.74	47.82
80.87	0.00	VAP	VVP	VLV	VAD	VSC
VVC	VRV	123.58	238.09	153.96	100.44	333.54
503.33	145.22					
TIME	4.05	PAP	PVP	PLV	PAO	PSC
PVC	PRV	16.27	7.89	107.14	95.32	51.01
2.01	10.86	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	53.67	0.00	945.80	72.22
80.85	0.00	VAP	VVP	VLV	VAD	VSC
VVC	VRV	122.40	239.28	134.05	119.15	333.49
504.94	145.22					
TIME	4.08	PAP	PVP	PLV	PAO	PSC
PVC	PRV	16.11	7.93	117.00	107.63	51.01
2.03	14.51	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	57.33	0.00	750.12	92.26
80.84	0.00	VAP	VVP	VLV	VAD	VSC
VVC	VRV	121.23	240.44	117.00	134.52	333.49
506.57	145.22					
TIME	4.09	PAP	PVP	PLV	PAO	PSC
PVC	PRV	16.10	7.97	119.74	114.48	51.02
2.03	18.02	FPV	FPS	FMV	FAV	FAS
FVS	FTV	172.62	56.94	0.00	420.78	103.43
80.84	0.00	VAP	VVP	VLV	VAD	VSC
VVC	VRV	121.12	241.58	106.43	143.09	333.53
508.18	144.21					
TIME	4.11	PAP	PVP	PLV	PAO	PSC
PVC	PRV	16.70	8.01	123.38	118.93	51.02
2.04	20.79	FPV	FPS	FMV	FAV	FAS
FVS	FTV	368.73	60.82	0.00	355.71	110.68
80.84	0.00	VAP	VVP	VLV	VAD	VSC
VVC	VRV	125.56	242.75	98.71	148.66	333.59
509.80	138.61					
TIME	4.14	PAP	PVP	PLV	PAO	PSC
PVC	PRV	17.58	8.04	123.94	121.23	51.04
2.04	22.19	FPV	FPS	FMV	FAV	FAS
FVS	FTV	416.14	66.68	0.00	216.19	114.42
80.85	0.00	VAP	VVP	VLV	VAD	VSC
VVC	VRV	132.17	244.02	93.58	151.54	333.66
511.41	130.75					
TIME	4.15	PAP	PVP	PLV	PAO	PSC
PVC	PRV	18.51	8.09	125.17	122.69	51.05
2.05	23.21	FPV	FPS	FMV	FAV	FAS
FVS	FTV	423.03	72.91	0.00	199.10	116.76
80.85	0.00	VAP	VVP	VLV	VAD	VSC
VVC	VRV	139.22	245.41	89.44	153.36	333.73
513.03	122.30					
TIME	4.18	PAP	PVP	PLV	PAO	PSC
PVC	PRV	19.47	8.14	125.10	123.33	51.06
2.05	24.39	FPV	FPS	FMV	FAV	FAS
FVS	FTV	443.30	79.28	0.00	141.48	117.80
80.86	0.00	VAP	VVP	VLV	VAD	VSC
VVC	VRV	146.44	246.94	86.28	154.15	333.80
514.65	113.57					
TIME	4.20	PAP	PVP	PLV	PAO	PSC
PVC	PRV	20.41	8.20	125.32	123.63	51.07
2.06	25.16	FPV	FPS	FMV	FAV	FAS
FVS	FTV	426.61	05.50	0.00	134.52	118.26
80.87	0.00	VAP	VVP	VLV	VAD	VSC
VVC	VRV	153.53	248.58	83.54	154.53	333.88
516.26	104.82					
TIME	4.21					

PVC 2.06 FVS 80.87 VVC 517.88	PRV 25.99 FTV 0.00 VRV 96.27	PAP 21.32 FPV 420.59 VAP 160.32	PVP 8.25 FPS 91.41 VVP 250.35	PLV 125.41 FMV 0.00 VLV 80.92	PAO 123.83 FAV 127.20 VAO 154.77	PSC 51.09 FAS 118.57 VSC 333.95
TIME PVC 2.07 FVS 80.89 VVC 519.51	4.24 PRV 26.44 FTV 0.00 VRV 88.13	PAP 22.14 FPV 386.51 VAP 166.55	PVP 8.31 FPS 96.78 VVP 252.25	PLV 125.45 FMV 0.00 VLV 78.41	PAO 123.94 FAV 121.82 VAO 154.91	PSC 51.10 FAS 118.73 VSC 334.02
TIME PVC 2.07 FVS 80.90 VVC 521.12	4.25 PRV 26.67 FTV 0.00 VRV 80.87	PAP 22.85 FPV 344.10 VAP 171.84	PVP 8.39 FPS 101.24 VVP 254.21	PLV 123.52 FMV 0.00 VLV 77.21	PAO 123.01 FAV 40.89 VAO 153.76	PSC 51.11 FAS 117.21 VSC 334.09
TIME PVC 2.09 FVS 80.90 VVC 522.73	4.27 PRV 26.77 FTV 0.00 VRV 74.44	PAP 23.42 FPV 300.78 VAP 176.22	PVP 8.45 FPS 104.85 VVP 256.27	PLV 122.27 FMV 0.00 VLV 76.41	PAO 121.79 FAV 38.70 VAO 152.22	PSC 51.11 FAS 115.19 VSC 334.17
TIME PVC 2.09 FVS 80.91 VVC 524.35	4.30 PRV 26.30 FTV 0.00 VRV 69.26	PAP 23.83 FPV 222.64 VAP 179.25	PVP 0.52 FPS 107.18 VVP 258.40	PLV 118.35 FMV 0.00 VLV 76.34	PAO 120.02 FAV 0.00 VAO 150.01	PSC 51.12 FAS 112.28 VSC 334.23
TIME PVC 2.10 FVS 80.91 VVC 525.98	4.31 PRV 26.10 FTV 0.00 VRV 65.25	PAP 24.08 FPV 181.44 VAP 181.09	PVP 8.59 FPS 108.40 VVP 260.56	PLV 114.53 FMV 0.00 VLV 76.34	PAO 118.24 FAV 0.00 VAO 147.79	PSC 51.13 FAS 109.36 VSC 334.29
TIME PVC 2.10 FVS 80.91 VVC 527.60	4.33 PRV 22.52 FTV 0.00 VRV 64.35	PAP 23.91 FPV 0.00 VAP 179.82	PVP 8.67 FPS 106.71 VVP 262.72	PLV 95.43 FMV 0.00 VLV 76.34	PAO 116.50 FAV 0.00 VAO 145.62	PSC 51.15 FAS 100.53 VSC 334.34
TIME PVC 2.11 FVS 80.91 VVC 529.21	4.36 PRV 19.30 FTV 0.00 VRV 61.25	PAP 23.63 FPV 0.00 VAP 177.71	PVP 8.73 FPS 104.27 VVP 264.83	PLV 76.34 FMV 0.00 VLV 76.34	PAO 114.82 FAV 0.00 VAO 143.53	PSC 51.15 FAS 103.79 VSC 334.39
TIME PVC 2.11 FVS 80.91 VVC 530.82	4.37 PRV 9.81 FTV 0.00 VRV 64.35	PAP 23.25 FPV 0.00 VAP 175.66	PVP 8.80 FPS 101.88 VVP 266.88	PLV 38.66 FMV 0.00 VLV 76.34	PAO 113.20 FAV 0.00 VAO 141.48	PSC 51.16 FAS 101.11 VSC 334.44
TIME PVC 2.12 FVS 80.91 VVC 532.19	4.39 PRV 0.27 FTV 144.51 VRV 64.62	PAP 23.09 FPV 0.00 VAP 173.64	PVP 8.86 FPS 99.60 VVP 268.61	PLV 0.73 FMV 144.70 VLV 76.65	PAO 111.59 FAV 0.00 VAO 139.48	PSC 51.16 FAS 98.49 VSC 334.47
TIME PVC 2.11 FVS 80.93 VVC 530.84	4.42 PRV 0.22 FTV 148.23 VRV 67.59	PAP 22.83 FPV 0.00 VAP 171.67	PVP 8.83 FPS 97.99 VVP 267.63	PLV 0.51 FMV 147.96 VLV 79.62	PAO 110.03 FAV 0.00 VAO 137.54	PSC 51.17 FAS 95.95 VSC 334.51
TIME PVC	4.43 PRV	PAP	PVP	PLV	PAO	PSC

2.11	0.23	22.57	8.79	0.54	108.52	51.17
FVS	FTV	FPV	FPS	FMV	FAV	FAS
80.95	147.07	0.00	96.41	147.02	0.00	93.46
VVC	VRV	VAP	VVP	VLV	VAO	VSC
529.49	70.56	169.71	266.62	82.58	135.63	334.53
TIME	4.45	PAP	PVP	PLV	PAO	PSC
PVC	PRV	22.31	8.76	0.56	107.04	51.17
2.11	0.23	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	94.86	146.07	0.00	91.05
80.96	145.91	VAP	VVP	VLV	VAO	VSC
VVC	VRV	167.81	265.60	85.51	133.79	334.56
528.19	73.49					
TIME	4.48	PAP	PVP	PLV	PAO	PSC
PVC	PRV	22.06	8.73	0.57	105.60	51.18
2.10	0.24	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	93.35	145.12	0.00	88.70
80.97	144.75	VAP	VVP	VLV	VAO	VSC
VVC	VRV	165.92	264.56	88.42	131.99	334.57
526.89	76.39					
TIME	4.49	PAP	PVP	PLV	PAO	PSC
PVC	PRV	21.82	8.69	0.60	104.20	51.18
2.10	0.26	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	91.86	144.16	0.00	86.41
80.98	143.59	VAP	VVP	VLV	VAO	VSC
VVC	VRV	164.06	263.53	91.32	130.24	334.58
523.63	79.27					
TIME	4.52	PAP	PVP	PLV	PAO	PSC
PVC	PRV	21.57	8.65	0.61	102.84	51.18
2.09	0.27	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	90.42	143.21	0.00	84.19
80.99	142.49	VAP	VVP	VLV	VAO	VSC
VVC	VRV	162.26	262.48	94.16	128.54	334.59
524.39	82.12					
TIME	4.53	PAP	PVP	PLV	PAO	PSC
PVC	PRV	21.34	8.62	0.64	101.52	51.18
2.09	0.27	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	88.99	142.24	0.00	82.02
81.01	141.39	VAP	VVP	VLV	VAO	VSC
VVC	VRV	160.46	261.41	97.03	126.88	334.59
523.17	84.96					
TIME	4.55	PAP	PVP	PLV	PAO	PSC
PVC	PRV	21.11	8.58	0.65	100.22	51.18
2.09	0.28	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	87.60	141.28	0.00	79.92
81.02	140.28	VAP	VVP	VLV	VAO	VSC
VVC	VRV	158.69	260.35	99.87	125.27	334.59
521.97	87.78					
TIME	4.58	PAP	PVP	PLV	PAO	PSC
PVC	PRV	20.86	8.54	0.67	98.94	51.18
2.07	0.29	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	86.22	140.33	0.00	77.85
81.02	139.22	VAP	VVP	VLV	VAO	VSC
VVC	VRV	156.95	259.26	102.70	123.67	334.59
520.80	90.59					
TIME	4.59	PAP	PVP	PLV	PAO	PSC
PVC	PRV	20.64	8.51	0.69	97.72	51.18
2.07	0.30	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	84.88	139.36	0.00	75.84
81.03	138.15	VAP	VVP	VLV	VAO	VSC
VVC	VRV	155.24	258.18	105.49	122.15	334.58
519.64	93.36					
TIME	4.61	PAP	PVP	PLV	PAO	PSC
PVC	PRV	20.41	8.48	0.71	96.52	51.18
2.06	0.30	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	83.56	138.40	0.00	73.89
81.03	137.07	VAP	VVP	VLV	VAO	VSC
VVC	VRV	153.55	257.08	108.28	120.64	334.57
518.51	96.12					
TIME	4.64	PAP	PVP	PLV	PAO	PSC
PVC	PRV	20.20	8.45	0.72	95.36	51.17
2.06	0.32	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	82.27	137.43	0.00	72.01
81.03	136.03	VAP	VVP	VLV	VAO	VSC
VVC	VRV	151.90	256.00	111.01	119.19	334.56
517.41	98.83					
TIME	4.65	PAP	PVP	PLV	PAO	PSC
PVC	PRV	19.98	8.41	0.75	94.21	51.17
2.06	0.33					

FVS	FTV	FPV	FPS	FMV	FAV	FAS
81.03	134.99	0.00	81.01	136.45	0.00	70.14
VVC	VRV	VAP	VVP	VLV	VAO	VSC
516.31	101.55	150.26	254.88	113.76	117.76	334.53
TIME	4.68					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.05	0.34	19.76	8.38	0.76	93.10	51.17
FVS	FTV	FPV	FPS	FMV	FAV	FAS
81.03	133.99	0.00	79.76	135.46	0.00	68.35
VVC	VRV	VAP	VVP	VLV	VAO	VSC
515.25	104.25	148.65	253.77	116.48	116.38	334.51
TIME	4.70					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.05	0.34	19.56	8.34	0.78	92.03	51.17
FVS	FTV	FPV	FPS	FMV	FAV	FAS
81.03	132.93	0.00	78.55	134.51	0.00	66.60
VVC	VRV	VAP	VVP	VLV	VAO	VSC
514.20	106.91	147.07	252.65	119.18	115.03	334.49
TIME	4.71					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.05	0.35	19.35	8.30	0.79	90.98	51.16
FVS	FTV	FPV	FPS	FMV	FAV	FAS
81.03	131.96	0.00	77.36	133.53	0.00	64.89
VVC	VRV	VAP	VVP	VLV	VAO	VSC
513.17	109.56	145.51	251.54	121.85	113.72	334.46
TIME	4.74					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.04	0.37	19.14	8.25	0.82	89.94	51.16
FVS	FTV	FPV	FPS	FMV	FAV	FAS
81.03	130.95	0.00	76.19	132.56	0.00	63.22
VVC	VRV	VAP	VVP	VLV	VAO	VSC
512.16	112.20	143.97	250.40	124.53	112.43	334.43
TIME	4.75					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.04	0.37	18.95	8.22	0.83	88.95	51.15
FVS	FTV	FPV	FPS	FMV	FAV	FAS
81.03	129.99	0.00	75.05	131.58	0.00	61.61
VVC	VRV	VAP	VVP	VLV	VAO	VSC
511.17	114.79	142.47	249.28	127.16	111.18	334.39
TIME	4.77					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.04	0.38	18.74	8.18	0.85	87.98	51.15
FVS	FTV	FPV	FPS	FMV	FAV	FAS
81.03	129.02	0.00	73.91	130.60	0.00	60.03
VVC	VRV	VAP	VVP	VLV	VAO	VSC
510.21	117.38	140.98	248.14	129.77	109.97	334.35
TIME	4.80					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.03	0.39	18.55	8.14	0.87	87.03	51.13
FVS	FTV	FPV	FPS	FMV	FAV	FAS
81.02	128.07	0.00	72.81	129.65	0.00	58.51
VVC	VRV	VAP	VVP	VLV	VAO	VSC
509.25	119.95	139.51	247.01	132.37	108.79	334.30
TIME	4.81					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.03	0.40	18.36	8.11	0.88	86.11	51.13
FVS	FTV	FPV	FPS	FMV	FAV	FAS
81.02	127.11	0.00	71.73	128.65	0.00	57.01
VVC	VRV	VAP	VVP	VLV	VAO	VSC
508.33	122.50	138.06	245.88	134.96	107.63	334.25
TIME	4.84					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.03	0.40	18.16	8.07	0.90	85.20	51.12
FVS	FTV	FPV	FPS	FMV	FAV	FAS
81.01	126.16	0.00	70.67	127.70	0.00	55.56
VVC	VRV	VAP	VVP	VLV	VAO	VSC
507.41	125.04	136.63	244.74	137.53	106.51	334.20
TIME	4.86					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.01	0.41	17.98	8.03	0.91	84.33	51.11
FVS	FTV	FPV	FPS	FMV	FAV	FAS
81.01	125.23	0.00	69.62	126.72	0.00	54.13
VVC	VRV	VAP	VVP	VLV	VAO	VSC
506.51	127.56	135.23	243.59	140.09	105.40	334.15
TIME	4.87					
PVC	PRV	PAP	PVP	PLV	PAO	PSC
2.01	0.43	17.80	7.99	0.94	83.47	51.11
FVS	FTV	FPV	FPS	FMV	FAV	FAS

80.99	124.34	0.00	68.60	125.73	0.00	52.75
VVC	VRV	VAP	VVP	VLV	VAO	VSC
505.64	130.05	133.85	242.45	142.60	104.33	334.09
TIME	4.90	PAP	PVP	PLV	PAO	PSC
PVC	PRV	17.62	7.96	0.95	82.64	51.10
2.01	0.43	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	67.60	124.82	0.00	51.42
80.98	123.45	VAP	VVP	VLV	VAO	VSC
VVC	VRV	132.49	241.31	145.09	103.30	334.04
504.79	132.52					
TIME	4.92	PAP	PVP	PLV	PAO	PSC
PVC	PRV	17.43	7.92	0.96	81.82	51.09
2.01	0.44	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	66.61	123.84	0.00	50.10
80.98	122.52	VAP	VVP	VLV	VAO	VSC
VVC	VRV	131.14	240.16	147.60	102.28	333.98
503.94	134.99					
TIME	4.93	PAP	PVP	PLV	PAO	PSC
PVC	PRV	17.26	7.89	0.99	81.03	51.07
2.00	0.45	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	65.65	122.85	0.00	48.82
80.97	121.63	VAP	VVP	VLV	VAO	VSC
VVC	VRV	129.82	239.01	150.06	101.29	333.92
503.11	137.43					
TIME	4.96	PAP	PVP	PLV	PAO	PSC
PVC	PRV	17.09	7.85	1.00	80.26	51.07
2.00	0.45	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	64.70	121.90	0.00	47.58
80.96	120.76	VAP	VVP	VLV	VAO	VSC
VVC	VRV	128.52	237.88	152.50	100.33	333.85
502.32	130.06					
TIME	4.97	PAP	PVP	PLV	PAO	PSC
PVC	PRV	16.92	7.81	1.01	79.52	51.06
2.00	0.46	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	63.76	120.96	0.00	46.37
80.95	119.91	VAP	VVP	VLV	VAO	VSC
VVC	VRV	127.23	236.73	154.93	99.39	333.79
501.52	142.26					
TIME	4.99	PAP	PVP	PLV	PAO	PSC
PVC	PRV	16.75	7.77	1.02	78.78	51.05
2.00	0.48	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	62.84	120.01	0.00	45.19
80.93	119.07	VAP	VVP	VLV	VAO	VSC
VVC	VRV	125.96	235.58	157.35	98.48	333.72
500.76	144.65					
TIME	5.02	PAP	PVP	PLV	PAO	PSC
PVC	PRV	16.58	7.80	47.47	78.06	51.04
2.00	3.84	FPV	FPS	FMV	FAV	FAS
FVS	FTV	0.00	61.45	0.00	0.00	44.05
80.91	0.00	VAP	VVP	VLV	VAO	VSC
VVC	VRV	124.73	236.63	157.53	97.58	333.64
501.81	145.20					

APPENDIX 3

PHSBEH Solution of PHYSBE

(Analog Integrators, Strip-Chart Output)

PHSBEH Analog Circuit

PROGRAM NAME : PHSBEH
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PHSBEH

/ PJ DIONNE 4NOVEMBER71

/ HYBRID MODEL (STRIP CHART OUTPUT)

BGN, CAF

41/ ISZ \$CL1
50/ ISZ \$CL2

BGN+1/ MIST
MXRN
JMS IOVFL\$
LAC (40200
ASC
LAC (5000'
DAC \$FC
LAC (1
DAC \$TS
EPI

LOOP, JMS AMODE\$
SZA!CLA
JMP PUMP
DA0 DA1 DA2 DA3 DA4
DA5 DA6
JMP LOOP

PUMP, MX0
JMS TINT
JMS VENAC
JMS RVENT
JMS PULA
JMS PULV
JMS LVENT
JMS AORTA
JMS SYSTEM

LAC TIME
CAS (1000.
NOP / >1000.
DZM TIME / =1000.
JMP LOOP / <1000.

.1VVC0,	1000.	/	2*VVC(0)
.3VRV0,	1200.	/	8*VRV(0)
.3VAP0,	960.	/	8*VAP(0)
.2VVP0,	960.	/	4*VVP(0)
.3VLV0,	1200.	/	8*VLV(0)
.3VA00,	800.	/	8*VA0(0)
.2VSC0,	1336.	/	4*(0.1*VSC(0))

RVCOMP,	12			
	0.	40.	80.	120.
	160.	200.	240.	280.
	320.	360.	400.	1000.
	0.33	5.	10.	15.
	19.	24.	30.	36.
	40.	30.	0.33	0.33

LVCOMP,	12			
	0.	40.	80.	120.
	160.	200.	240.	280.
	320.	360.	400.	1000.
	0.66	60.	100.	125.
	140.	150.	160.	160.
	150.	100.	0.66	0.66

PROGRAM NAME : PHSBEH
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/ DVVC/DT=FVS-FTV
/ VVC(0)=500.
/ PVC=0.004*VVC
/ FVS=1.65*(PSC-PVC)

VENAC, 0
ADRB
MX1
ADD .1VVC0 / 2*VVC(0)
JMS HMPY1\$
102.4 / (100*2^8)*(0.004)
DAC #.9PVC / 512*PVC
LRSS+5
CMA
ADD .4PSC / 16*PSC
JMS HMPY1\$
165. / (100)*(1.65)
DAC #.4FVS / 16*FVS
LRSS+1
SUB .3FTV / 8*FTV
LRSS+3
DA0
JMP I VENAC

/ DVRV/DT=FTV-FPV
/ VRV(0)=150.
/ PRV=VRV/CLV
/ FTV=78*(PVC-PRV); (PVC-PRV).GT.0
/ FTV=0; (PVC-PRV).LE.0

RVENT, 0
ADRB
MX2
ALSS+3
ADD .3VRV0 / 8*VRV(0)
DAC #.3VRV / 8*VRV
LAC TIME
JMS FG1\$
RVCOMP
ALSS+2
JMS HMPY2\$
LAC .3VRV / 8*VRV
DAC #.5PRV / 32*PRV
LAC .9PVC / 512*PVC
LRSS+4
SUB .5PRV / 32*PRV
SPA
JMP TV1
ALSS+1
JMS HMPY1\$
975. / (100/2^3)*(78)
DAC #.3FTV / 8*FTV
TV2, LAC .3FTV / 8*FTV
LRSS+2
SUB .1FPV / 2*FPV
LRSS+4
DA1
JMP I RVENT
TV1, DZM .3FTV
JMP TV2

PROGRAM NAME : PHSBEH
 PAGE 4 OF LISTING

/ DVAP/DT=FPV-FPS
 / VAP(0)=120.
 / PAP=0.133*VAP
 / FPV=90*(PRV-PAP); (PRV-PAP).GT.0
 / FPV=0; (PRV-PAP).LE.0

PULA, 0
 ADRB
 MX3
 ALSS+3
 ADD .3VAP0 / 8*VAP(0)
 JMS HMPY1\$
 106.4 / (100*2³)*(0.133)
 DAC #.6PAP / 64*PAP
 LRSS+1
 CMA
 ADD .5PRV / 32*PRV
 SP0
 JMP PV1
 JMS HMPY1\$
 562.5 / (100/2⁴)*(90)
 DAC #.1FPV / 2*FPV
 PV2, LAC .3FPS / 8*FPS
 LRSS+2
 CMA
 ADD .1FPV / 2*FPV
 LRSS+3
 DA2
 JMP I PULA
 PV1, DZM .1FPV
 JMP PV2

/ DVVP/DT=FPS-FMV
 / VVP(0)=240.
 / PVP=0.033*VVP
 / FPS=7*(PAP-PVP)

PULV, 0
 ADRB
 MX4
 ALSS+1
 ADD .2VVP0 / 4*VVP(0)
 JMS HMPY1\$
 105.6 / (100*2⁵)*(0.033)
 DAC #.7PVP / 128*PVP
 LRSS+1
 CMA
 ADD .6PAP / 64*PAP
 JMS HMPY1\$
 87.5 / (100/2³)*(7)
 DAC #.3FPS / 8*FPS
 SUB .3FMV / 8*FMV
 LRSS+4
 DA3
 JMP I PULV

PROGRAM NAME : PHSBEH
PAGE 5 OF LISTING

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/ DVLV/DT=FMV-FAV
/ VLV(0)=150.
/ PLV=VLV/CLV
/ FMV=17.81*(PVP-PLV); (PVP-PLV).GT.0
/ FMV=0; (PVP-PLV).LE.0

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LVENT,      0
             ADRB      MX5
             ALSS+3
             ADD .3VLV0      / 8*VLV(0)
             DAC #.3VLV      / 8*VLV
             LAC TIME
             JMS FG1$
             LVCOMP
             JMS HMPY2$
             LAC .3VLV / 8*VLV
             DAC #.3PLV / 8*PLV
             LAC .7PVP / 128*PVP
             LRSS+4
             SUB .3PLV / 8*PLV
             SPA
             JMP MV1
             ALSS+1
             JMS HMPY1$
             890.5 / (100/2^1)*(17.81)
             DAC #.3FMV      / 8*FMV
MV2,         LAC .3FMV / 8*FMV
             LRSS+3
             SUB .0FAV / FAV
             LRSS+4      DA4
             JMP I LVENT
MV1,         DZM .3FMV JMP MV2

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/ DVAO/DT=FAV-FAS
/ VAO(0)=100.
/ PA0=0.8*VAO
/ FAV=80*(PLV-PA0); (PLV-PA0).GT.0
/ FAV=0; (PLV-PA0).LE.0

```

```

AORTA,      0
             ADRB      MX6
             ALSS+3
             ADD .3VAO0      / 8*VAO(0)
             JMS HMPY1$
             80. / (100)*(0.8)
             DAC #.3PA0      / 8*PA0
             CMA
             ADD .3PLV / 8*PLV
             SPA
             JMP AV1
             JMS HMPY1$
             1000. / (100/2^3)*(80)
             DAC #.0FAV      / FAV
AV2,         LAC .3FAS / 8*FAS
             LRSS+3
             CMA
             ADD .0FAV / FAV
             LRSS+4      DA5
             JMP I AORTA
AV1,         DZM .0FAV JMP AV2

```

PROGRAM NAME : PHSBEH
 PAGE 6 OF LISTING

/ DVSC/DT=FAS-FVS
 / VSC(0)=3340.
 / PSC=0.0153*VSC
 / FAS=1.63*(PA0-PSC)

SYSTEM, 0
 ADRB
 LRSS+4
 ADD .2VSC0 / 4*(0.1*VSC(0))
 JMS HMPY1\$
 61.2 / (100*10*2^2)*(0.0153)
 DAC #.4PSC / 16*PSC
 LRSS+1
 CMA
 ADD .3PA0 / 8*PA0
 JMS HMPY1\$
 163. / (100)*(1.63)
 DAC #.3FAS / 8*FAS
 LAC .4FVS / 16*FVS
 LRSS+1
 CMA
 ADD .3FAS / 8*FAS
 JMS X.1\$
 ALSS+1
 DAB
 JMP I SYSTEM

TINT, 0
 JMS CNP\$
 0
 DAC #NP
 LAW
 JMP RINT\$
 LAC \$MODE
 LAC NP
 LAC (0, LAC (1000, LRSS ADD TIME
 0 DAC #TIME
 NOP
 JMP
 JMP i+1
 JMP i TINT

PAUSE

PHSBEH

AMODE\$		RVENT	157*	.3VRV	436*
AORTA	325*	SYSTEM	355*	.3VRV0	45*
AV1	353*	TIME	424*	.4FVS	437*
AV2	344*	TINT	402*	.4PSC	440*
BGN	0*	TV1	213*	.5PRV	441*
CNP\$		TV2	205*	.6PAP	442*
FG1\$		VENAC	135*	.7PVP	443*
HMPY1\$		X.1\$		.9PVC	444*
HMPY2\$		.0FAV	425*	\$CL1	
IOVFL\$		.1FPV	426*	\$CL2	
LOOP	13*	.1VVC0	44*	\$FC	
LVCOMP	104*	.2VSC0	52*	\$MODE	
LVENT	270*	.2VVP0	47*	\$TS	
MV1	323*	.3FAS	427*		
MV2	315*	.3FMV	430*		
NP	423*	.3FPS	431*		
PULA	215*	.3FTV	432*		
PULV	246*	.3PA0	433*		
PUMP	26*	.3PLV	434*		
PV1	244*	.3VA00	51*		
PV2	235*	.3VAP0	46*		
RINT\$		.3VLV	435*		
RVCMP	53*	.3VLV0	50*		

BGN	0*	AORTA	325*	FG1\$
LOOP	13*	AV2	344*	AMODE\$
PUMP	26*	AV1	353*	X.1\$
.1VVC0	44*	SYSTEM	355*	RINT\$
.3VRV0	45*	TINT	402*	HMPY2\$
.3VAP0	46*	NP	423*	CNP\$
.2VVP0	47*	TIME	424*	IOVFL\$
.3VLV0	50*	.0FAV	425*	HMPY1\$
.3VA00	51*	.1FPV	426*	\$CL1
.2VSC0	52*	.3FAS	427*	\$CL2
RVCMP	53*	.3FMV	430*	\$FC
LVCOMP	104*	.3FPS	431*	\$MODE
VENAC	135*	.3FTV	432*	\$TS
RVENT	157*	.3PA0	433*	
TV2	205*	.3PLV	434*	
TV1	213*	.3VLV	435*	
PULA	215*	.3VRV	436*	
PV2	235*	.4FVS	437*	
PV1	244*	.4PSC	440*	
PULV	246*	.5PRV	441*	
LVENT	270*	.6PAP	442*	
MV2	315*	.7PVP	443*	
MV1	323*	.9PVC	444*	

R06

UNIT
RELOC

LINK

SINT1	16
FG13	17
OVFL5	662
ACL1	1211
SCL2	1212
IOVFL5	651
SFC	1207
STS	1212
AMODE5	1202
FG13	737
HMPY23	611
HMPY13	555
X.13	644
CNPS	1166
RINT5	1231
AMODE	1213

KM

UNIT
RELOC

HDDT

TABLES

1214

13310

13000(CORIT2)

CORIT2 2/ 0

300

CORIT2

BGN'