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1 Introduction

Over the last year the Systems Development Group, SDG, has been involved in a number of projects. The primary projects include extending the UNIX version of DQS, a DCE version of DQS, a Java based queuing system, a Computer Aided Learning and Instruction model and working with the Florida Department of Law Enforcement in the formation of the Florida Computer Crime Center. Additionally SDG has assisted a number of state and local agencies. A synopsis of these projects follows.

2 DQS 3.2

DQS 3.x has proven to be one of the most widely used UNIX clustering resource managers. Its power, ease of use, and availability on a multiplicity of UNIX platforms has made it an indispensable tool in heterogeneous UNIX compute clusters. Over the last year SDG has continued to develop, support and make new releases of the DQS 3.x code base. DQS can be downloaded from http://www.scri.fsu.edu or via anonymous ftp from ftp2.scri.fsu.edu:/pub/DQS

In the last year SDG has also licensed DQS 3.x to MPI Technologies.

3 DQS 4.0

A DCE based version of DQS, DQS 4.0, has been developed and released. DQS 4.0 takes advantage of the security mechanisms, integrated file system and threading mechanisms afforded by DCE.

4 JQS

In an effort to extend portability and minimize support issues, SDG has begun developing the Java Queuing System, JQS. JQS is an adaptation of DQS built on top of Java. Our intent is to build a highly portable system that is extremely easy to install and manage on any platform which supports Java.

The initial release for JQS is scheduled for September, 1998.
5 Computer Aided Learning and Instruction

In a cooperative project with FSU, SDG has developed a Web based means of classroom material distribution. The Computer Aided Learning and Instruction, CALI\(^1\), project has been adopted by FSU and course-work for approximately 80 classes are nearing completion. FSU has committed over a half million dollars to developing course material for use on WebMC and will go online in the Fall semester of 1998.

6 Florida Computer Crime Center

The SDG has been working with the Florida Department of Law Enforcement, FDLE, in the formation of the Florida Computer Crime Center, FCCC. The FCCC will act as a clearing house for computer crime in Florida and will be loosely modeled after the FBIs National Infrastructure Protection Center. In particular FCCC will handle cases that are beyond the capabilities of local law enforcement agencies. Additionally the center will provide continuous training and consultation to local agencies. It is believed that this will be the first state supported center of its kind.

Recently space has been allocated at SCRI allowing SDG to form an even closer working relationship with FDLE.

7 Miscellaneous State and Local Agencies

SDG has worked with a number of State agencies over the past year on issues ranging from security to network design to software development. Some of the larger projects include:

- Florida Department Of Management Services
  \[\text{http://fcn.state.fl.us}\]

- Florida Joint Legislative Management Committee
  \[\text{http://www.leg.state.fl.us}\]

- Florida Public Service Commission
  \[\text{http://www.scri.net/psc}\]

\(^1\)FSU has recently renamed the project WebMC.
8 Conclusion

SDG has established a proven track record for the development of real-world scientific computing tools. Furthermore SDG remains committed to the transfer of technology to the private sector. Over the next year SDG intends to continue the development of JQS while continuing to develop and support the DQS 3.X code base. Additionally we intend to increase our efforts with the FDLE in establishing the Florida Computer Crime Center.