GEORGIA STATE UNIVERSITY
Proposal for the Use of FY2004 Technology Fees
Priority # 9
(Due Date: Monday, March 10, 2003)

Submitting Organization(s)
    Major Unit: Robinson College of Business
    Department: Computer Information Systems
Contact Person Name: Roderick Padilla
Contact Person Email: rpadilla@gsu.edu
Contact Person Phone: 1-3832

1. Project Short Title
   Research Student Departmental UNIX Production and Development Server

2. Total Requested Amount (reference to funding for “Years Following” removed)
   Fiscal Year 2004
   $103,250

3. Executive Summary
   Project Description (Three or four sentences)
   The project replaces the CIS Department's two obsolete unix-based servers. These servers are needed by research students (MS and PhD) and faculty for compute intensive or unix environment projects.

4. Project Description
   The project replaces the CIS Department's unix production and development servers. The existing servers do not meet the thresholds of the University minimum performance criteria for servers. These aging servers do not primarily serve administrative functions, but support compute intensive or unix environment projects. An example of a current student project for which these servers are required is a set of simulation experiments for mobile and wireless networks (by a CIS PhD student). These servers are also providing groupware, code versioning software, and communications applications that are important for faculty to coordinate research student projects (MS Thesis Option and PhD) and project collaboration.

5. Relevance to Regents Guidelines
   This proposal is relevant to Regents guidelines [1] [2] and [3]. The expenditures will directly benefit the students in meeting the educational objectives of the graduate information systems programs. The expenditures are primarily for software, hardware and network support in an on-line server for student access to the compute power for information technology experiments.
6. Relevance to Strategic Plan(s)

As stated in the University Strategic plan, a five-year goal is to strengthen electronic commerce, new technologies, computer information systems and computer science. We coupled this goal with “the explicit expectation in the university plans for a faculty and student body that participate actively in scholarly pursuits, especially those that make contributions through research or professional activities.” This project is also important to the key strategies for involving our students in developing the CIS Department as “the academic leader in the advancement of information systems and technology.” This project effectively and directly enables and encourages student contribution to these planned University, College and Departmental expectations and goals.

7. Impact on Students Served

This facility currently serves 26 CIS doctoral students. We expect the re-equipped facility will next year serve approximately 30 CIS doctoral students and 20 CIS Master’s Thesis Students. The facility will continue to be staffed by CIS Technical Support. Access is by permission of CIS Technical Support, made 24x7 for CIS Doctoral Students and CIS Master’s Students.

8. Justification of Funding Requirements for Fiscal Year 2004

To accomplish these goals, the following one-time expenditures are necessary:

<table>
<thead>
<tr>
<th>Object of Expense</th>
<th>Itemized Descriptions</th>
<th>Quantity</th>
<th>Extended $ Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 SUN production server replacement</td>
<td></td>
<td>1</td>
<td>$64,000</td>
</tr>
<tr>
<td>1 SUN development server replacement</td>
<td></td>
<td>1</td>
<td>$32,000</td>
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<tr>
<td>SUN-Iplanet Messaging &amp; Calendar</td>
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<td>1</td>
<td>$4,250</td>
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<tr>
<td>Server Professional Services</td>
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<td></td>
<td>$3,000</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td></td>
<td>$103,250</td>
</tr>
</tbody>
</table>

9. Consequences of Partial Funding

Only 75% funded: Project would remain viable with reduced scope. Cut the Development Server ($32,000) from the project. This will increase support and maintenance costs and reduce reliability, and introduce some student frustration with system crashes. These problems arise when untested systems software will have to sometimes be run on the single machine simultaneously with long-running production experiments.

Only 50% funded: Will not remain viable.

10. Standard Dollar Amounts

In constructing the budgetary requests in step 8 above, computer workstations should be budgeted at the following levels:

- Windows/Intel processors workstation, including monitor: $1,800
- Apple Macintosh models: $3,170

Requests departing from the above standard amounts require documentation of the specific programmatic need that requires departure from this standard. (See Attachment 2: Standard Windows/Intel instructional workstation.) Please explain any requested departures below:

*Provide any justification narrative of programmatic requirements here.*

11. Standard Replacement Thresholds
All equipment being requested due to obsolescence or inadequacy of existing equipment must be itemized on the form provided in Attachment 3: Itemization of Equipment to be Replaced. Each item for which replacement funding is being requested will be in one of the following two categories:

a. If the equipment to be replaced is less than 400 Mhz processor speed, this equipment is considered obsolete due to a University-wide standard. This standard of minimum performance has been set based on requirements for operating the current operating systems and office suites. The proposal submitter must state that the University minimum performance criteria are being used.

b. If the equipment to be replaced exceeds the University minimum, the proposal submitter is required to document specific quantitative performance requirements that warrant the replacement of such equipment. The equipment’s inability to perform specific functions must be identified. Also, a statement is required explaining why the performance of such functions is critical to the continued functioning of the facility in which the equipment is located. See Attachment 4: Equipment Exception Replacement Form, which must be completed for all replacement equipment that exceeds the University standard threshold.

12. Prerequisite, Non-Technology Fee, Funding

None.

13. Matching Funds

Installation labor, wiring, cabling or additional network connections will be shared or supported by the CIS department.

14. Staffing and Other Support Availability

Technical support provided by CIS Department, Technical Support, Rod Padilla, Manager, 1-3832, rpadilla@gsu.edu.

15. Space Availability

No space required. Will use current space allocation in RCB server room.

16. Impact on Facilities

No impact.

17. Impact on Computing/Network Infrastructure

No impact.

18. Post-Project Assessment Criteria

Project outcome milestones will be (1) installation and implementation certificate, indicating that equipment is installed, and network operational, and (2) CIS Research student survey, to determine post-project usage and satisfaction of this equipment for completion of student work.

19. Review and Acknowledgements

Attach electronic notes or documentation showing that the following units or administrators have reviewed or acknowledged this proposal:
Dean or functional unit endorsement
Matching funds commitment from appropriate fiscal officer
CBSAC approval, if necessary
University Computing and Communications Services review or acknowledgement, if necessary
Planning and Facilities review or acknowledgement, if necessary
GEORGIA STATE UNIVERSITY
Technology Fee FY 2004
Itemization of Equipment to be Replaced
Due to Obsolescence or Inadequacy

Unit: Computer Information Systems
Proposal Submitter: Roderick Padilla
Proposal/Award Title: Research Student Departmental UNIX Production and Development Server

If this proposal includes a request to replace old equipment with newer equipment due to obsolescence or inadequate performance, please itemize the specific machines or software to be replaced.

<table>
<thead>
<tr>
<th>Station Number</th>
<th>GSU ID</th>
<th>Serial No.</th>
<th>Current Room Location</th>
<th>Make</th>
<th>Model</th>
<th>CPU</th>
<th>Mhz</th>
<th>Manu. Date</th>
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