Socket Programming Project – Network Tester, Part One

| Name | Major | Primary | Secondary | Total Score |
|------|-------|-----------------------|---------------------|--------------------|
| | | Objective (75 pts) | Objectives (25 pts) | (100 pts) |
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Evaluation Rubric – Primary Objective (60 pts possible):

| Description | Points | Score |
|--|--------------------------------|-------|
| Control protocol implemented over dedicated TCP socket with | 50 | |
| Request, Reply, Done, and Result messages | , Done, and Result messages 50 | |
| Separate control and data threads implemented | 10 | |
| (data thread only prints opening and closing messages in this project) | 10 | |
| Single program implements bothclient andserver modes | 15 | |
| (i.e. when launched, the user decides which mode to activate) | 13 | |
| Total (75 pts possible) | | |
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Evaluation Rubric – Secondary Objectives (25 pts possible):

| Description | Points | Score |
|---|--------|-------|
| Program supports command-line argumenttarget to allow client to select server to contact. Default is <i>localhost</i> if not specified. | 5 | |
| Program supports command-line argumenttime to allow client to select testing time period. Default is 30 seconds if not specified. | | |
| CTRL-C captured for graceful exit | 5 | |
| Server implements 45 second timeout wait on control socket, and terminates test if no communication received in that period. | 5 | |
| Port field (in control message) sent in big endian data format | | |
| Total (25 pts possible) | | |

Comments: