Unity Id : gshah,spachary

Task 1 :

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| RFC Number | Size | In kb | Port 4515 | Port 4995 | Port 4695 | Port 4212 | Port 4513 |
| 6001 | 52,502 | 51 | 612 | 590 | 299 | 313 | 433 |
| 6002 | 23,091 | 23 | 130 | 131 | 79 | 77 | 86 |
| 6003 | 28,233 | 28 | 128 | 125 | 97 | 104 | 108 |
| 6004 | 32,320 | 32 | 193 | 162 | 121 | 126 | 123 |
| 6005 | 20,302 | 20 | 87 | 77 | 61 | 62 | 61 |
| 6006 | 68,108 | 67 | 371 | 396 | 292 | 271 | 271 |
| 6007 | 39,157 | 38 | 119 | 137 | 111 | 110 | 104 |
| 6008 | 14,329 | 14 | 40 | 64 | 40 | 34 | 34 |
| 6009 | 28,980 | 28 | 95 | 104 | 88 | 85 | 80 |
| 6010 | 87,496 | 85 | 488 | 456 | 380 | 337 | 339 |
| 6011 | 66,206 | 65 | 272 | 269 | 211 | 207 | 245 |
| 6012 | 24,476 | 24 | 71 | 66 | 60 | 71 | 67 |
| 6013 | 76,506 | 75 | 304 | 296 | 292 | 285 | 300 |
| 6014 | 11,183 | 11 | 31 | 33 | 29 | 24 | 33 |
| 6015 | 65,400 | 64 | 160 | 231 | 231 | 160 | 324 |
| 6016 | 95,186 | 93 | 275 | 257 | 248 | 242 | 267 |
| 6017 | 8,684 | 8 | 19 | 29 | 20 | 17 | 23 |
| 6018 | 21,542 | 21 | 37 | 45 | 38 | 38 | 43 |
| 6019 | 11,395 | 11 | 22 | 37 | 28 | 23 | 25 |
| 6020 | 324,179 | 317 | 3502 | 3185 | 2321 | 2269 | 2361 |
| 6021 | 52,827 | 52 | 192 | 213 | 132 | 129 | 129 |
| 6022 | 46,989 | 46 | 189 | 154 | 130 | 137 | 128 |
| 6023 | 12,561 | 12 | 25 | 30 | 32 | 26 | 29 |
| 6024 | 33,416 | 33 | 62 | 66 | 65 | 60 | 64 |
| 6025 | 39,222 | 38 | 89 | 87 | 88 | 87 | 87 |
| 6026 | 44,036 | 43 | 103 | 130 | 93 | 90 | 93 |
| 6027 | 27,498 | 27 | 53 | 50 | 53 | 51 | 53 |
| 6028 | 21,572 | 21 | 55 | 39 | 41 | 41 | 40 |
| 6029 | 48,616 | 47 | 91 | 100 | 110 | 99 | 95 |
| 6030 | 123,975 | 121 | 450 | 406 | 434 | 419 | 418 |
| 6031 | 56,130 | 55 | 144 | 155 | 161 | 149 | 142 |
| 6032 | 22,726 | 22 | 44 | 45 | 50 | 49 | 44 |
| 6033 | 9,819 | 10 | 20 | 21 | 21 | 22 | 21 |
| 6034 | 11,141 | 11 | 22 | 26 | 23 | 23 | 21 |
| 6035 | 84,931 | 83 | 245 | 260 | 281 | 283 | 234 |
| 6036 | 45,114 | 44 | 131 | 116 | 112 | 116 | 111 |
| 6037 | 57,137 | 56 | 136 | 131 | 133 | 127 | 139 |
| 6038 | 41,274 | 40 | 87 | 83 | 92 | 88 | 89 |
| 6039 | 50,789 | 50 | 124 | 112 | 106 | 119 | 113 |
| 6040 | 89,413 | 87 | 215 | 229 | 220 | 244 | 215 |
| 6041 | 28,099 | 27 | 73 | 59 | 76 | 64 | 60 |
| 6042 | 12,098 | 12 | 25 | 33 | 27 | 27 | 26 |
| 6043 | 139,517 | 136 | 451 | 459 | 446 | 446 | 494 |
| 6044 | 54,487 | 53 | 116 | 148 | 121 | 131 | 124 |
| 6045 | 172,818 | 169 | 664 | 745 | 658 | 651 | 750 |
| 6046 | 14,761 | 14 | 33 | 29 | 28 | 30 | 30 |
| 6047 | 40,698 | 40 | 108 | 214 | 100 | 96 | 104 |
| 6048 | 50,874 | 50 | 136 | 119 | 136 | 118 | 129 |
| 6049 | 57,487 | 56 | 143 | 142 | 148 | 138 | 146 |
| 6050 | 41,022 | 40 | 115 | 95 | 88 | 87 | 96 |
| 6051 | 53,504 | 52 | 112 | 144 | 111 | 109 | 124 |
| 6052 | 41,850 | 41 | 84 | 83 | 83 | 84 | 134 |
| 6053 | 72,338 | 71 | 186 | 188 | 184 | 188 | 219 |
| 6054 | 22,673 | 22 | 42 | 52 | 52 | 43 | 42 |
| 6055 | 58,800 | 57 | 127 | 123 | 130 | 127 | 127 |
| 6056 | 63,914 | 62 | 178 | 156 | 156 | 163 | 149 |
| 6057 | 74,686 | 73 | 204 | 170 | 167 | 176 | 193 |
| 6058 | 90,202 | 88 | 215 | 304 | 217 | 230 | 222 |
| 6059 | 40,656 | 40 | 92 | 86 | 85 | 87 | 93 |
| 6060 | 45,601 | 45 | 113 | 98 | 96 | 106 | 99 |

As the size of the file increases, the time needed for it to transfer from one place to the other also increases.

This time is near about a constant. And varies a bit according to the port number due to background traffic in the network.

Task 2

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| RFC Number | Size | In kb | Port 4515 | Port 4995 | Port 4695 | Port 4212 | Port 4513 | Port 4516 |
| 6001 | 52,502 | 51 |  | 388 | 312 | 313 | 311 | 347 |
| 6002 | 23,091 | 23 |  | 81 | 105 | 77 | 88 | 75 |
| 6003 | 28,233 | 28 |  | 97 | 99 | 113 | 101 | 94 |
| 6004 | 32,320 | 32 |  | 135 | 121 | 127 | 125 | 130 |
| 6005 | 20,302 | 20 |  | 58 | 61 | 62 | 61 | 68 |
| 6006 | 68,108 | 67 |  | 278 | 285 | 295 | 270 | 323 |
| 6007 | 39,157 | 38 |  | 126 | 108 | 107 | 107 | 115 |
| 6008 | 14,329 | 14 |  | 35 | 32 | 32 | 35 | 34 |
| 6009 | 28,980 | 28 |  | 82 | 88 | 84 | 90 | 85 |
| 6010 | 87,496 | 85 |  | 323 | 336 | 450 | 345 | 341 |
| 6011 | 66,206 | 65 | 218 |  | 248 | 215 | 246 | 222 |
| 6012 | 24,476 | 24 | 100 |  | 57 | 156 | 61 | 77 |
| 6013 | 76,506 | 75 | 347 |  | 320 | 312 | 337 | 290 |
| 6014 | 11,183 | 11 | 30 |  | 36 | 29 | 36 | 32 |
| 6015 | 65,400 | 64 | 217 |  | 235 | 218 | 240 | 223 |
| 6016 | 95,186 | 93 | 240 |  | 241 | 245 | 242 | 246 |
| 6017 | 8,684 | 8 | 18 |  | 19 | 35 | 19 | 18 |
| 6018 | 21,542 | 21 | 59 |  | 38 | 48 | 37 | 39 |
| 6019 | 11,395 | 11 | 28 |  | 23 | 25 | 27 | 26 |
| 6020 | 324,179 | 317 | 2341 |  | 2306 | 2358 | 2367 | 2537 |
| 6021 | 52,827 | 52 | 125 | 133 |  | 125 | 132 | 140 |
| 6022 | 46,989 | 46 | 136 | 130 |  | 131 | 135 | 136 |
| 6023 | 12,561 | 12 | 25 | 26 |  | 56 | 36 | 30 |
| 6024 | 33,416 | 33 | 62 | 72 |  | 64 | 71 | 71 |
| 6025 | 39,222 | 38 | 84 | 91 |  | 113 | 90 | 93 |
| 6026 | 44,036 | 43 | 95 | 102 |  | 97 | 93 | 104 |
| 6027 | 27,498 | 27 | 50 | 55 |  | 77 | 52 | 53 |
| 6028 | 21,572 | 21 | 46 | 41 |  | 40 | 47 | 44 |
| 6029 | 48,616 | 47 | 97 | 99 |  | 93 | 89 | 98 |
| 6030 | 123,975 | 121 | 435 | 477 |  | 425 | 442 | 421 |
| 6031 | 56,130 | 55 | 146 | 152 | 150 |  | 169 | 156 |
| 6032 | 22,726 | 22 | 47 | 46 | 48 |  | 47 | 54 |
| 6033 | 9,819 | 10 | 20 | 28 | 23 |  | 20 | 21 |
| 6034 | 11,141 | 11 | 20 | 24 | 20 |  | 26 | 22 |
| 6035 | 84,931 | 83 | 229 | 253 | 254 |  | 280 | 230 |
| 6036 | 45,114 | 44 | 107 | 112 | 119 |  | 109 | 106 |
| 6037 | 57,137 | 56 | 126 | 136 | 134 |  | 152 | 128 |
| 6038 | 41,274 | 40 | 93 | 80 | 86 |  | 84 | 82 |
| 6039 | 50,789 | 50 | 104 | 101 | 105 |  | 108 | 105 |
| 6040 | 89,413 | 87 | 204 | 231 | 212 |  | 219 | 206 |
| 6041 | 28,099 | 27 | 58 | 58 | 57 | 57 |  | 59 |
| 6042 | 12,098 | 12 | 25 | 25 | 25 | 56 |  | 28 |
| 6043 | 139,517 | 136 | 442 | 438 | 439 | 447 |  | 438 |
| 6044 | 54,487 | 53 | 124 | 123 | 117 | 125 |  | 134 |
| 6045 | 172,818 | 169 | 658 | 675 | 663 | 633 |  | 660 |
| 6046 | 14,761 | 14 | 28 | 29 | 29 | 37 |  | 27 |
| 6047 | 40,698 | 40 | 97 | 97 | 96 | 95 |  | 97 |
| 6048 | 50,874 | 50 | 131 | 127 | 131 | 126 |  | 130 |
| 6049 | 57,487 | 56 | 155 | 150 | 150 | 139 |  | 150 |
| 6050 | 41,022 | 40 | 90 | 85 | 84 | 84 |  | 87 |
| 6051 | 53,504 | 52 | 110 | 116 | 106 | 109 | 122 |  |
| 6052 | 41,850 | 41 | 94 | 85 | 83 | 83 | 91 |  |
| 6053 | 72,338 | 71 | 186 | 187 | 177 | 176 | 209 |  |
| 6054 | 22,673 | 22 | 40 | 41 | 42 | 40 | 40 |  |
| 6055 | 58,800 | 57 | 123 | 133 | 143 | 142 | 137 |  |
| 6056 | 63,914 | 62 | 149 | 162 | 166 | 155 | 162 |  |
| 6057 | 74,686 | 73 | 174 | 180 | 171 | 174 | 193 |  |
| 6058 | 90,202 | 88 | 215 | 222 | 224 | 224 | 232 |  |
| 6059 | 40,656 | 40 | 87 | 92 | 102 | 84 | 90 |  |
| 6060 | 45,601 | 45 | 93 | 99 | 94 | 108 | 94 |  |

The readings are pretty similar to the earlier readings.

There is not much difference in the system even if they have to collect 10 files from one of each peers.

Message format:

**1) ADD**

ADD RFC  rfc\_no  P2P-CI/1.0 \n Host-> client\_host\_name Port: clients\_server\_port Title: rfc\_title

**2) LOOKUP**

 rfc\_no  P2P-CI/1.0 \n Host-> client\_host\_name clients\_server\_port.

**3) LISTRFC**

LIST ALL P2P-CI/1.0 \n  Host->  client\_host\_name  Port: clients\_server\_port

**4) GET RFC**

GET RFC rfc\_no  P2P-CI/1.0 \n  Host-> client\_host\_name Operating system: osName

5) **WRONG INPUT**

"P2P-CI/1.0 Bad Request 400"

6) **DATA RECEIVED FROM SERVER**

P2P-CI/1.0 200 OK \nOS: System.getProperty("[os.name](http://os.name/)") Content Type:text/text

 7) **FILE NOT FOUND**

P2P-CI/1.0  404 NotFound