

Results of the Simulation Completed at: 25/01/2023 09:56:13

Overall Response Time Summary

| | Avg (ms) | Min (ms) | Max (ms) |
|------------------------------|-----------------|-----------------|-----------------|
| Overall response time: | 51.29 | 38.61 | 63.75 |
| Data Center processing time: | 1.60 | 0.02 | 2.85 |

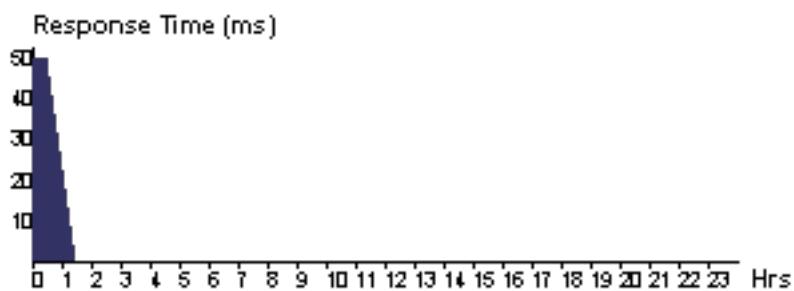
Response Time by Region

| Userbase | Avg (ms) | Min (ms) | Max (ms) |
|-----------------|-----------------|-----------------|-----------------|
| UB10 | 51.35 | 38.61 | 57.86 |
| UB11 | 51.34 | 41.95 | 58.88 |
| UB12 | 51.80 | 45.12 | 61.21 |
| UB13 | 51.01 | 41.16 | 58.42 |
| UB14 | 51.06 | 40.95 | 62.65 |
| UB15 | 51.80 | 45.02 | 60.42 |
| UB16 | 51.43 | 42.89 | 59.72 |
| UB17 | 50.45 | 42.27 | 60.26 |
| UB18 | 50.84 | 44.10 | 61.39 |
| UB19 | 51.91 | 43.12 | 61.45 |
| UB1 | 50.94 | 43.01 | 60.76 |
| UB20 | 51.56 | 45.05 | 59.64 |
| UB21 | 50.90 | 41.83 | 60.37 |
| UB22 | 51.27 | 44.53 | 62.39 |
| UB23 | 52.12 | 43.83 | 63.75 |
| UB24 | 50.62 | 40.28 | 60.51 |
| UB25 | 51.37 | 43.11 | 57.32 |
| UB26 | 51.97 | 42.60 | 60.90 |
| UB27 | 51.64 | 43.82 | 60.90 |
| UB28 | 51.28 | 42.83 | 63.38 |
| UB29 | 50.70 | 42.23 | 61.27 |
| UB2 | 51.21 | 43.32 | 60.56 |
| UB30 | 51.31 | 43.32 | 59.31 |
| UB31 | 51.06 | 41.35 | 59.66 |
| UB32 | 51.06 | 40.16 | 60.98 |
| UB33 | 51.26 | 41.93 | 60.45 |

| | | | |
|------|-------|-------|-------|
| UB34 | 51.72 | 42.85 | 59.34 |
| UB35 | 51.95 | 44.87 | 62.17 |
| UB36 | 51.21 | 42.91 | 56.81 |
| UB37 | 51.07 | 43.26 | 63.55 |
| UB38 | 51.04 | 44.09 | 58.89 |
| UB39 | 51.00 | 41.67 | 59.82 |
| UB3 | 51.86 | 44.10 | 60.74 |
| UB40 | 50.78 | 39.16 | 59.39 |
| UB41 | 51.18 | 42.60 | 60.01 |
| UB42 | 51.26 | 41.68 | 60.51 |
| UB43 | 50.83 | 41.35 | 62.13 |
| UB44 | 51.38 | 42.96 | 59.47 |
| UB45 | 51.24 | 41.60 | 60.01 |
| UB46 | 51.69 | 44.53 | 60.35 |
| UB47 | 51.32 | 42.31 | 58.86 |
| UB48 | 51.48 | 42.39 | 59.64 |
| UB49 | 51.10 | 43.61 | 59.77 |
| UB4 | 50.86 | 40.80 | 59.93 |
| UB50 | 50.97 | 43.13 | 62.31 |
| UB5 | 51.88 | 45.76 | 60.26 |
| UB6 | 51.76 | 44.14 | 60.47 |
| UB7 | 51.00 | 42.61 | 60.16 |
| UB8 | 51.47 | 43.60 | 62.88 |
| UB9 | 50.91 | 41.44 | 60.26 |

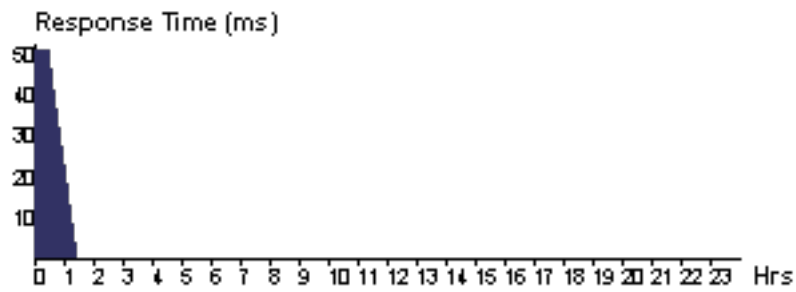
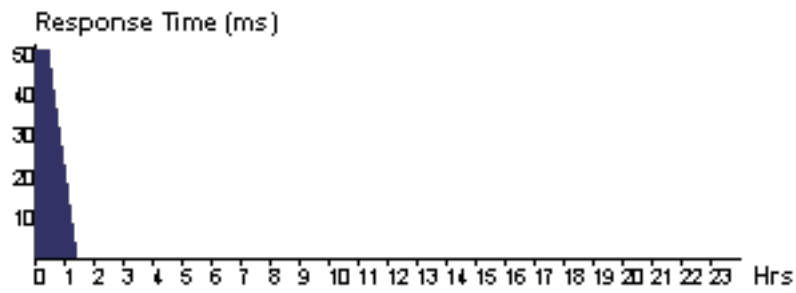
User Base Hourly Response Times

UB1

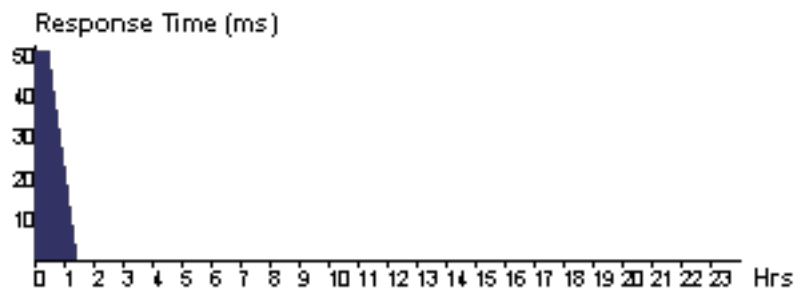


UB10

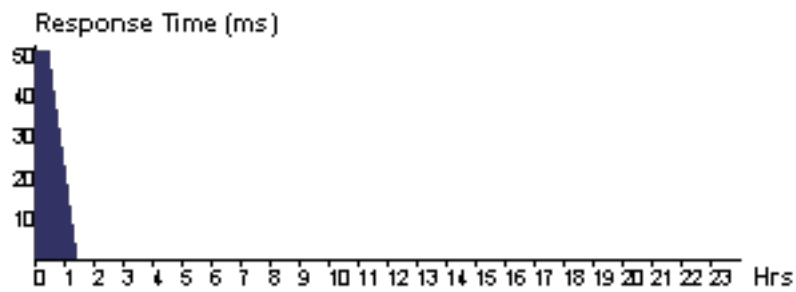
UB11



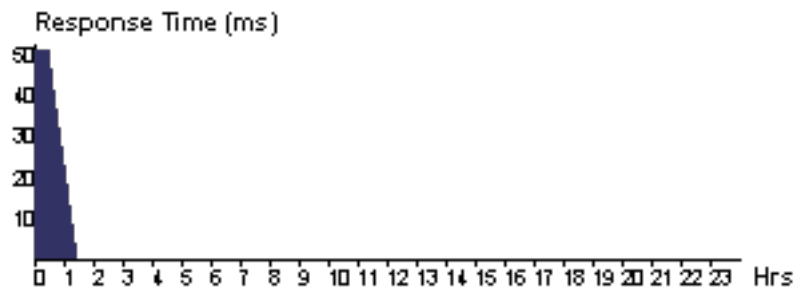
UB12



UB13

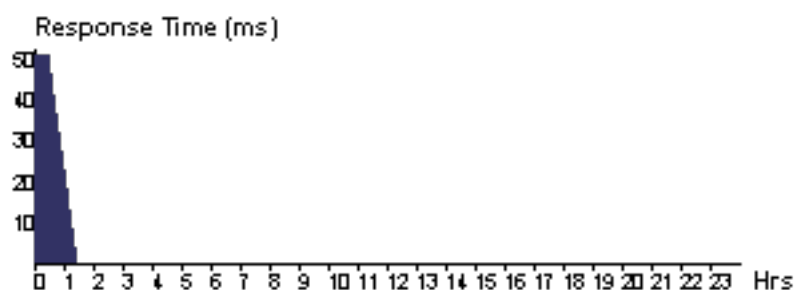
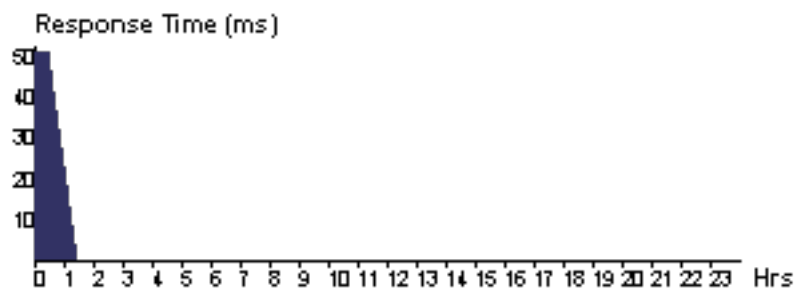


UB14

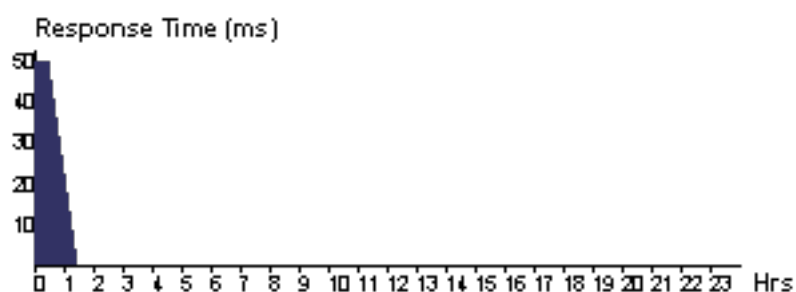


UB15

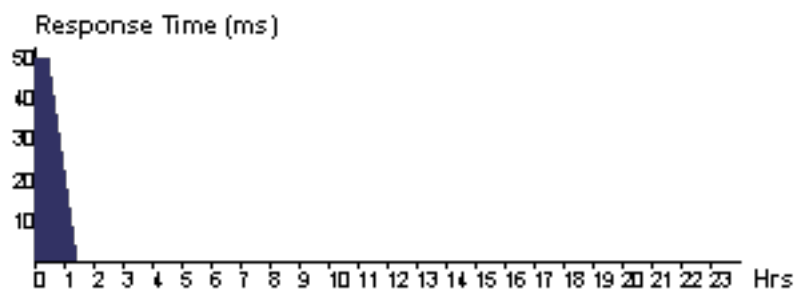
UB16



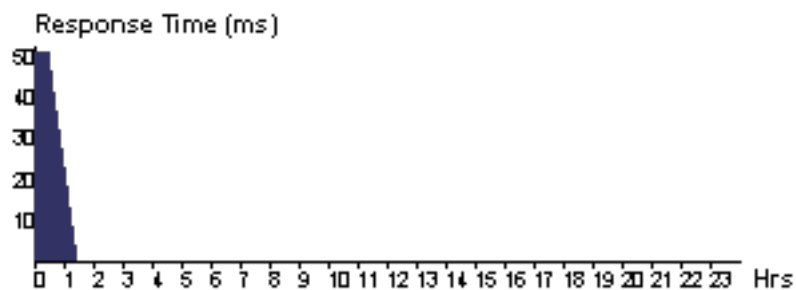
UB17



UB18

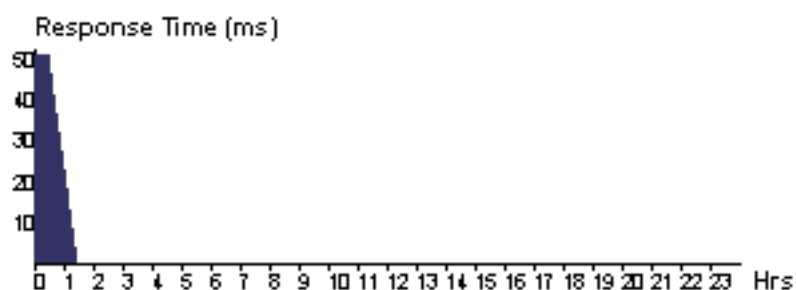
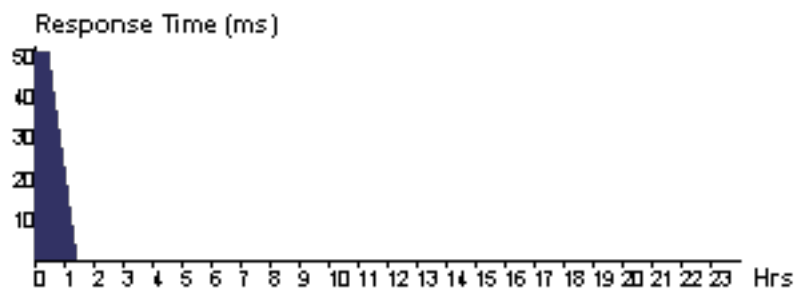


UB19

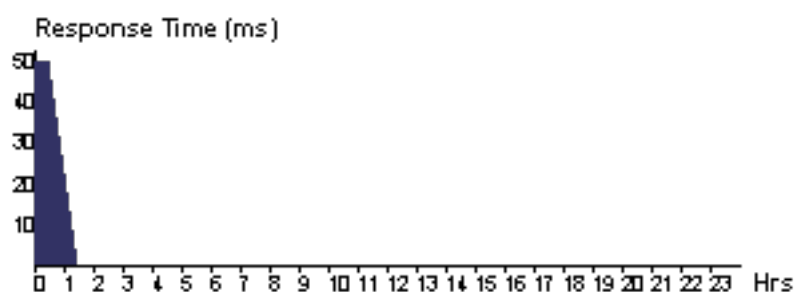


UB2

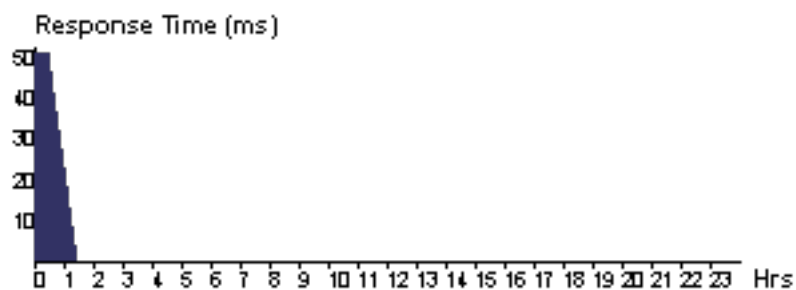
UB20



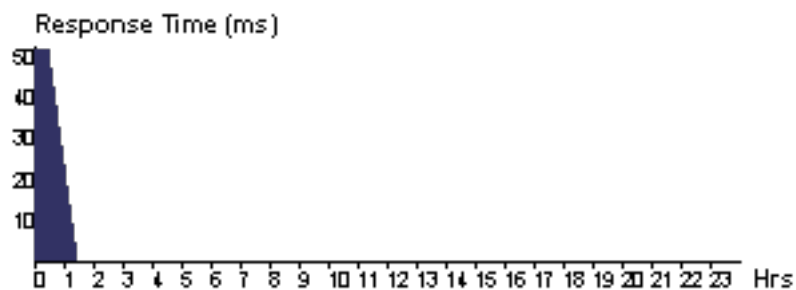
UB21



UB22

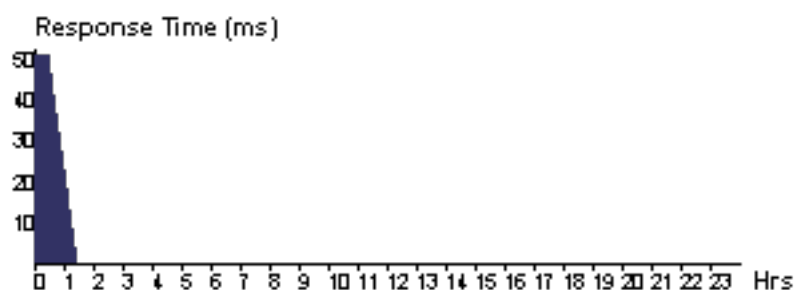
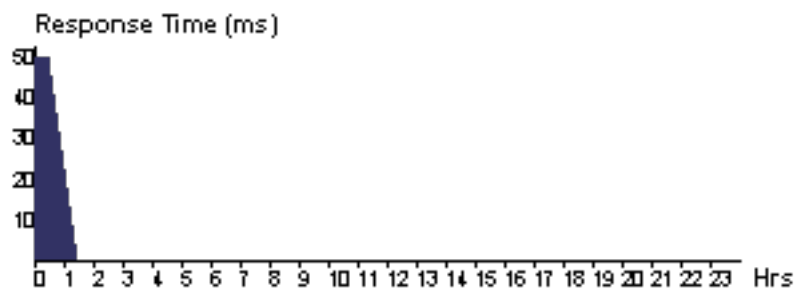


UB23

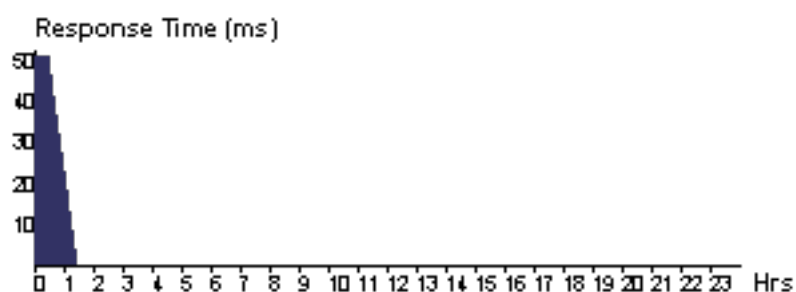


UB24

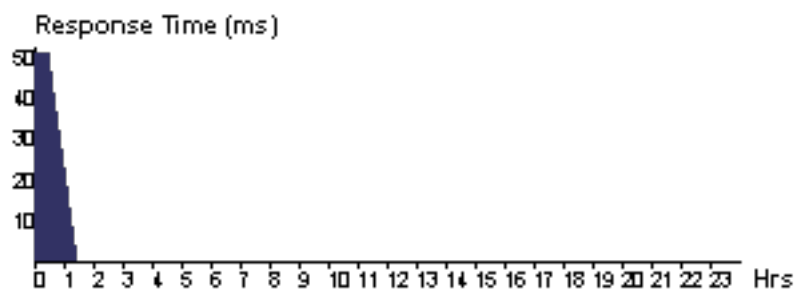
UB25



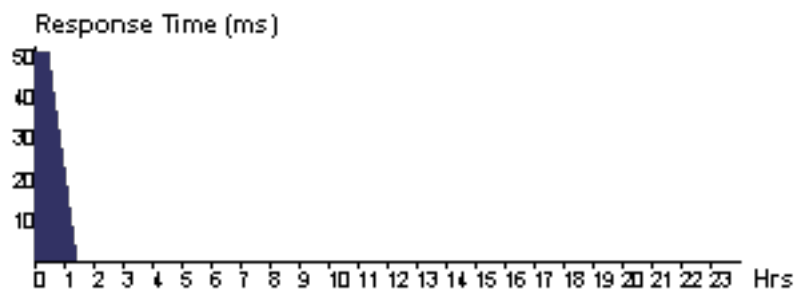
UB26



UB27

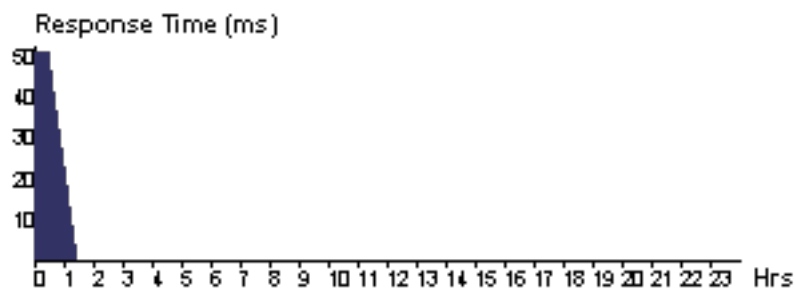
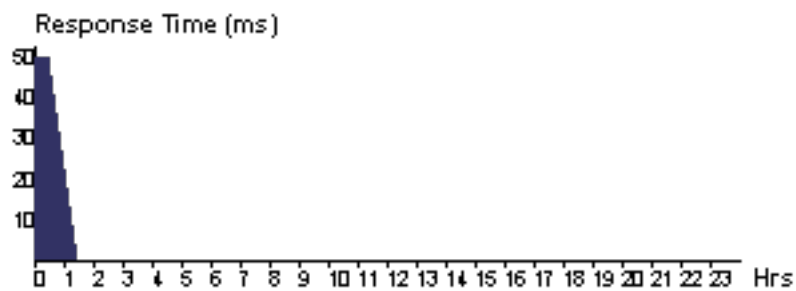


UB28

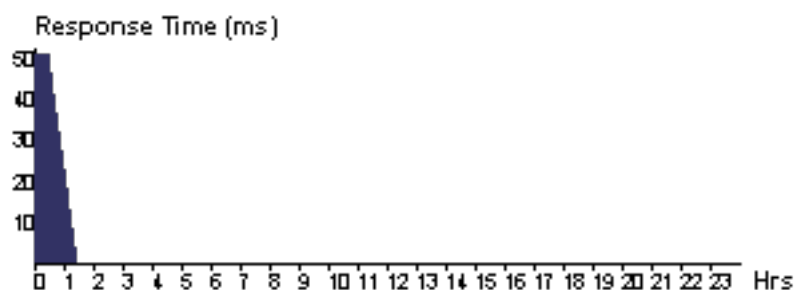


UB29

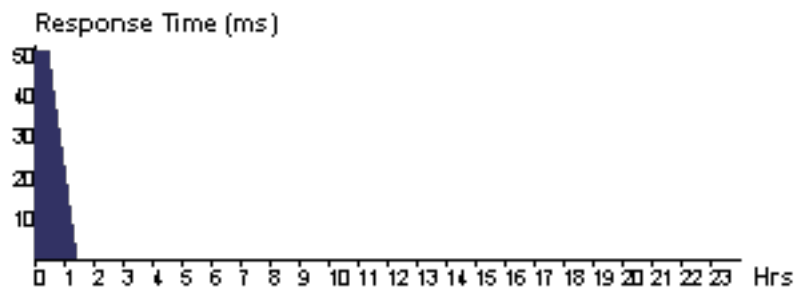
UB3



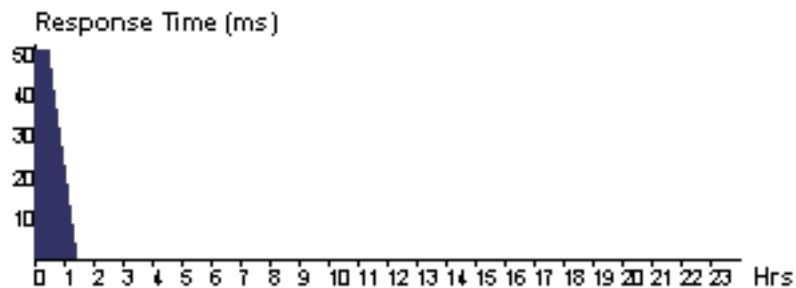
UB30



UB31

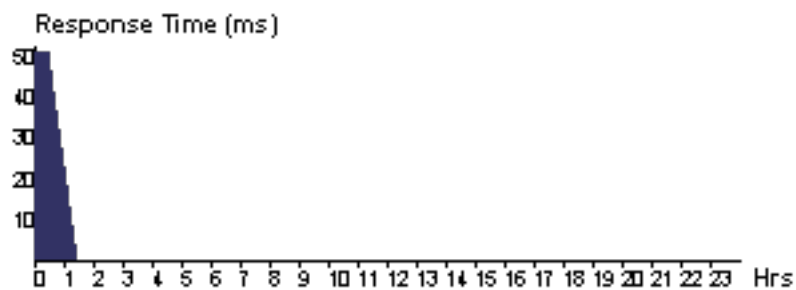
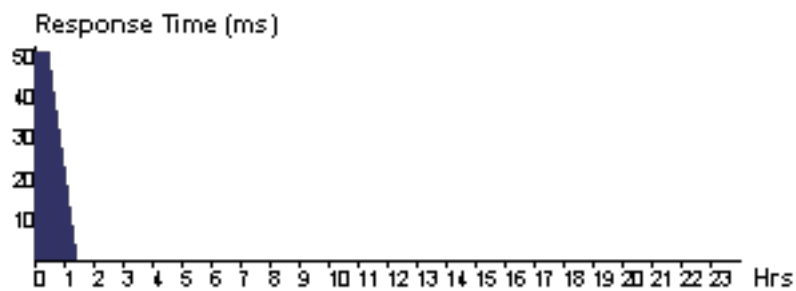


UB32

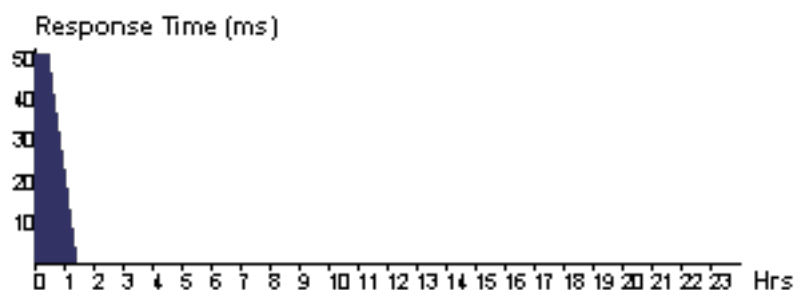


UB33

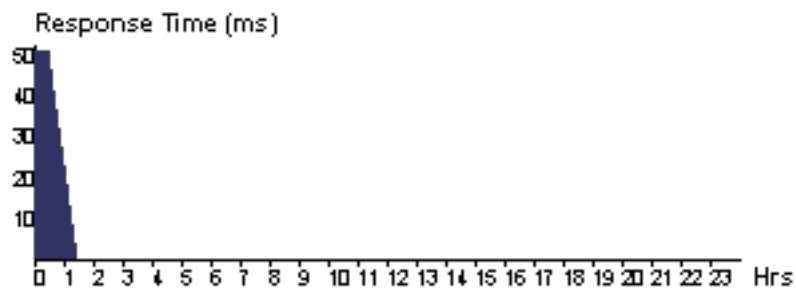
UB34



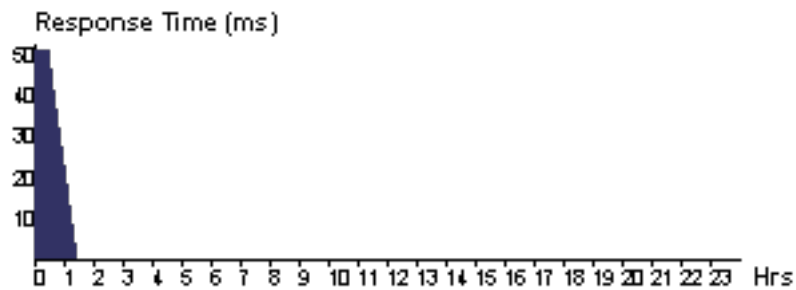
UB35



UB36

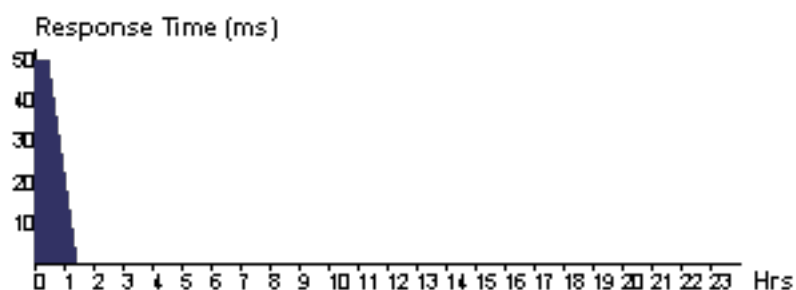
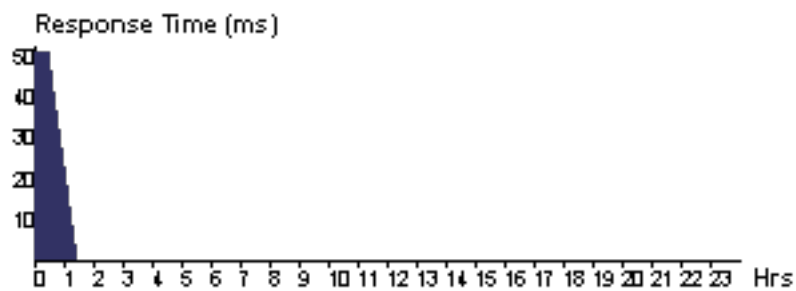


UB37

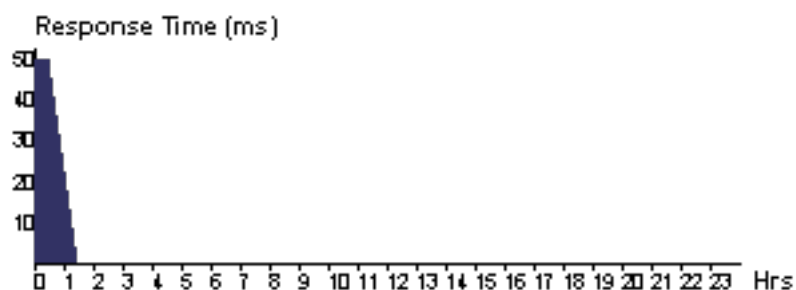


UB38

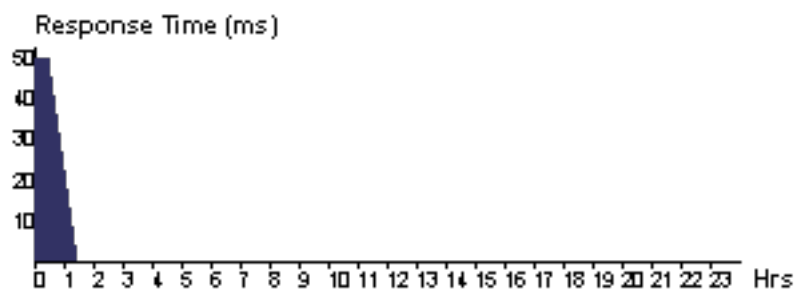
UB39



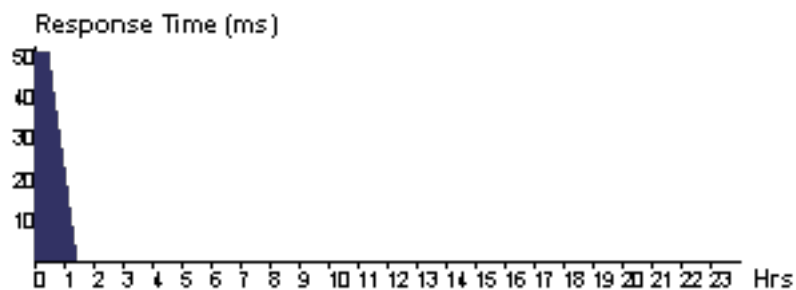
UB4



UB40

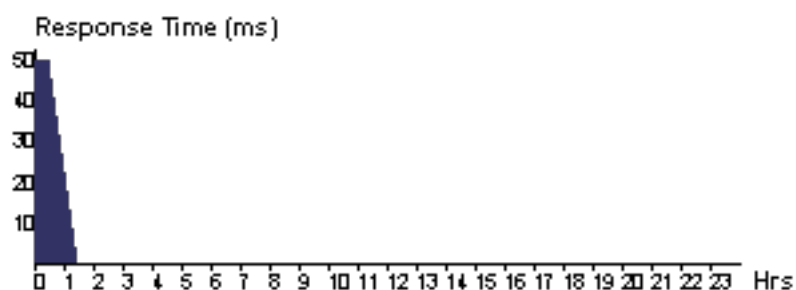
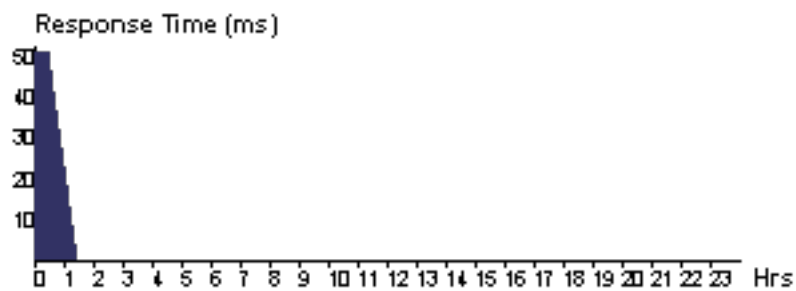


UB41

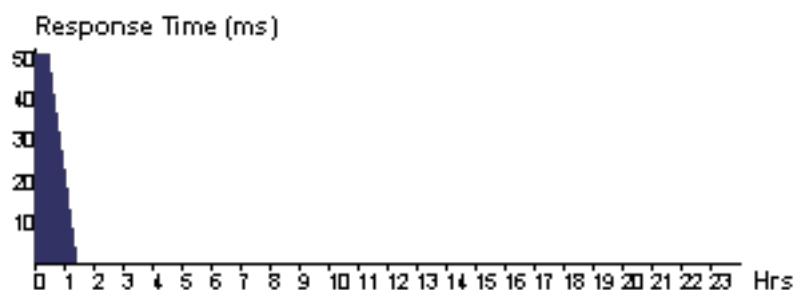


UB42

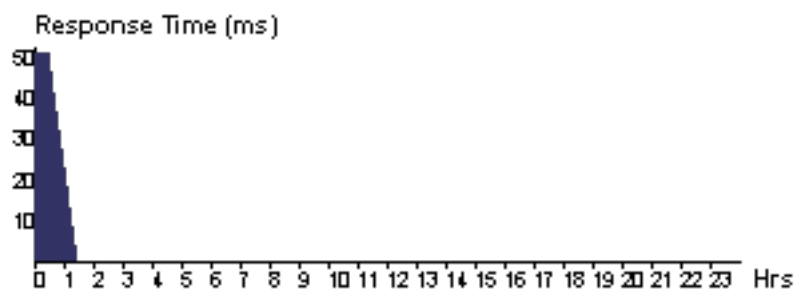
UB43



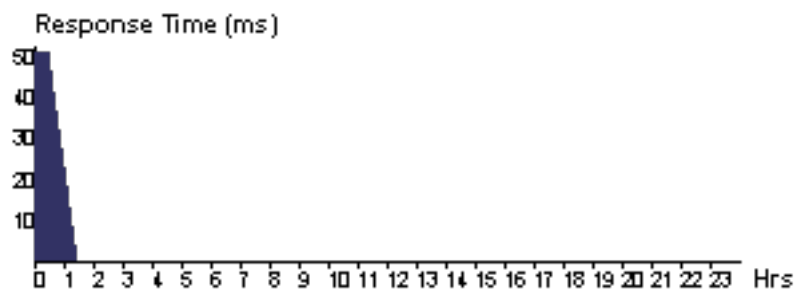
UB44



UB45

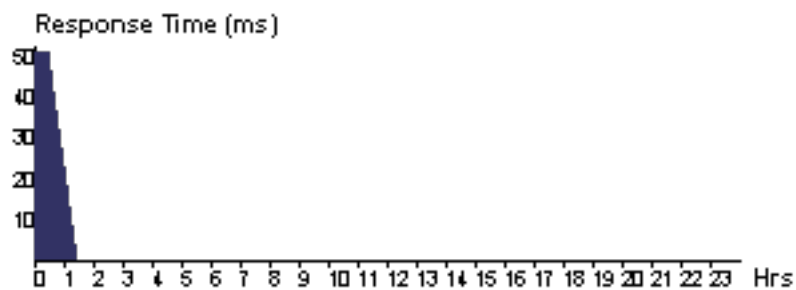
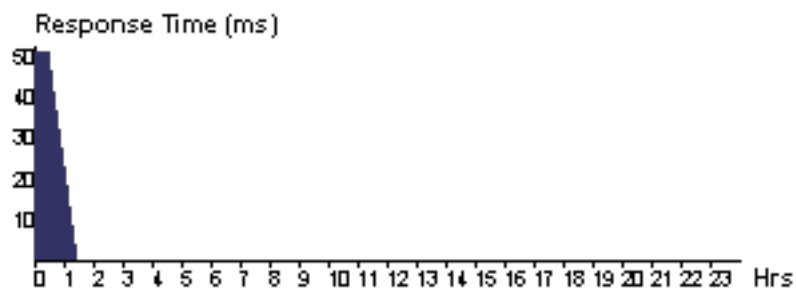


UB46

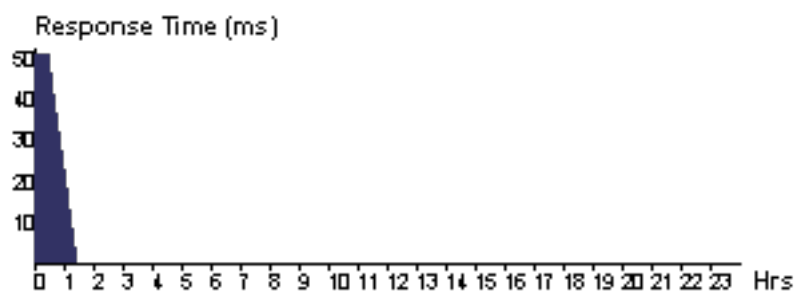


UB47

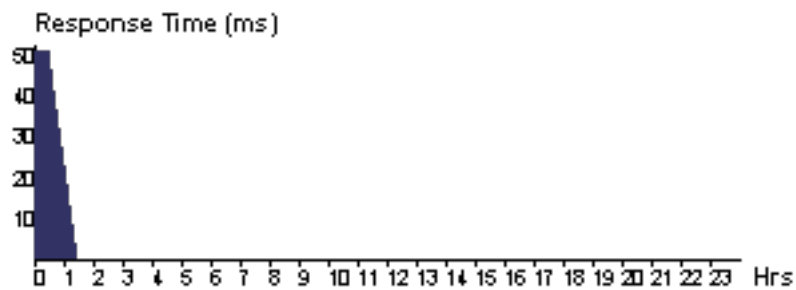
UB48



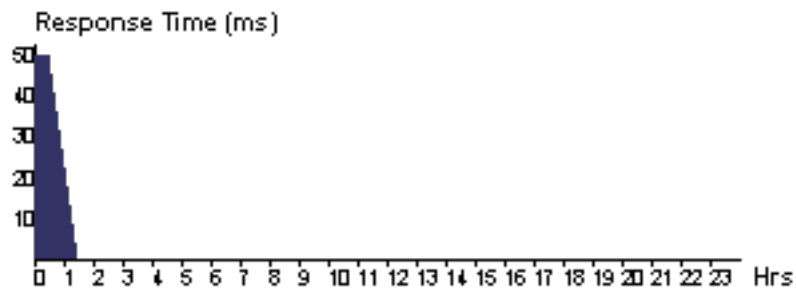
UB49



UB5

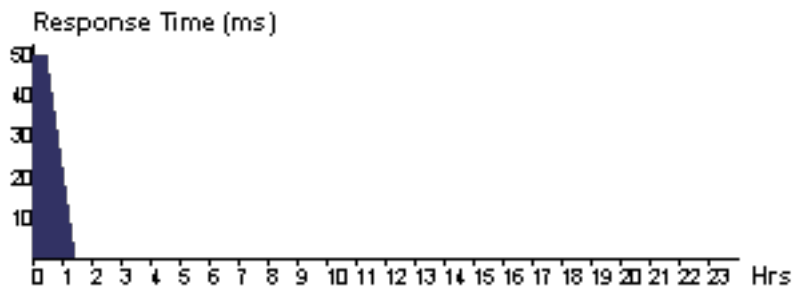
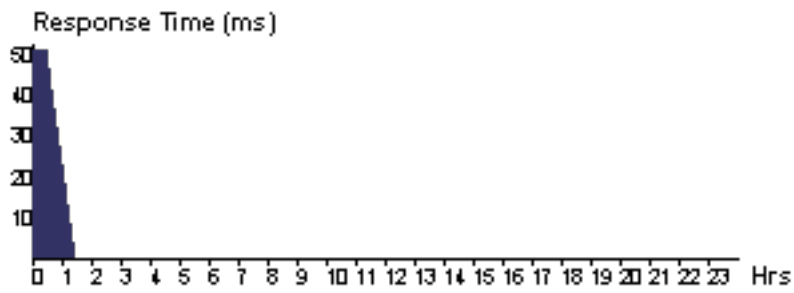


UB50

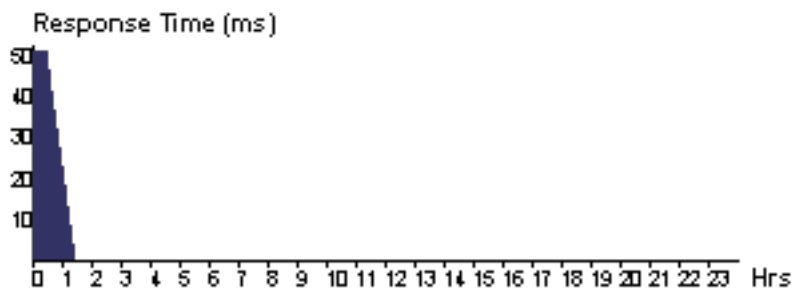


UB6

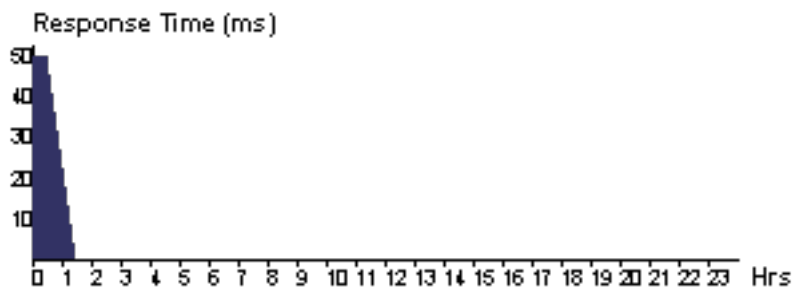
UB7



UB8



UB9

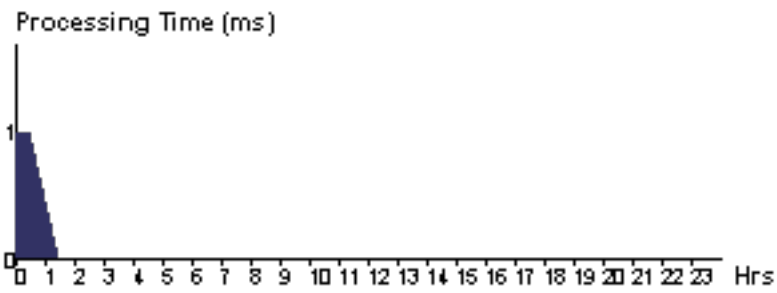


Data Center Request Servicing Times

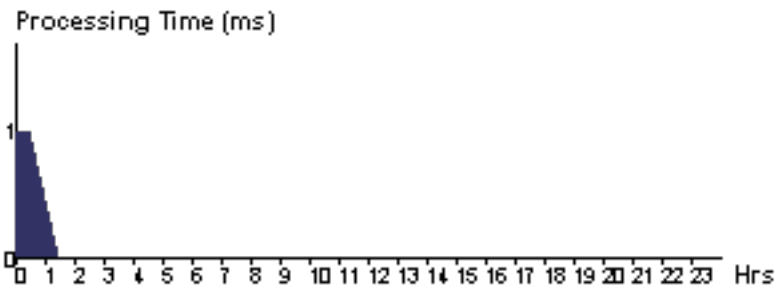
| Data Center | Avg (ms) | Min (ms) | Max (ms) |
|-------------|----------|----------|----------|
| DC1 | 1.43 | 0.02 | 2.30 |
| DC2 | 1.67 | 0.04 | 2.85 |
| DC3 | 1.64 | 0.02 | 2.66 |
| DC4 | 1.66 | 0.02 | 2.64 |

Data Center Hourly Average Processing Times

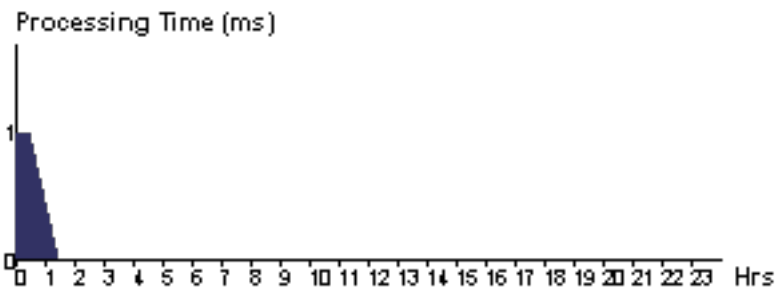
DC1



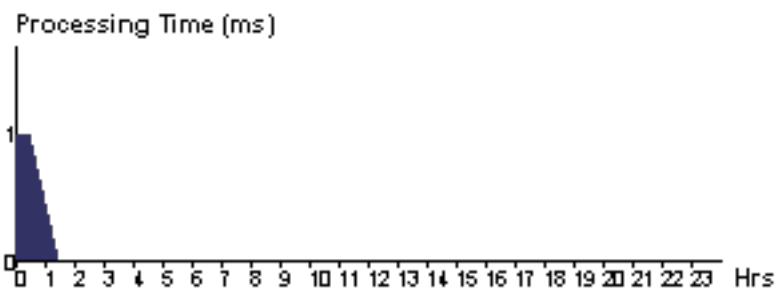
DC2



DC3

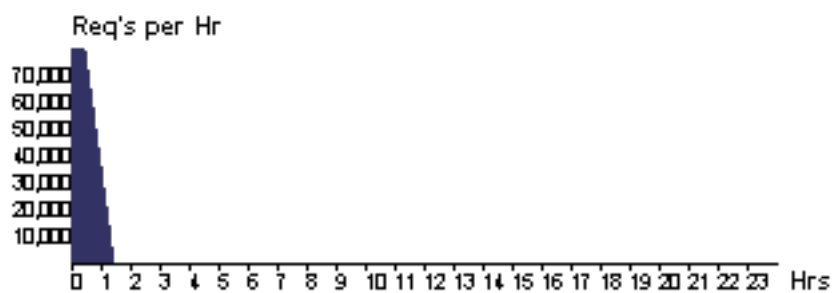


DC4

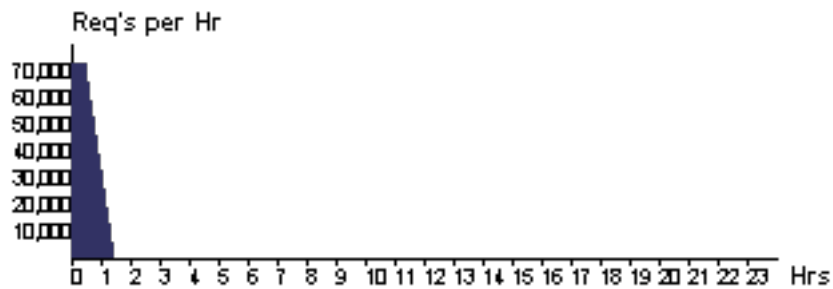


Data Center Hourly Loading

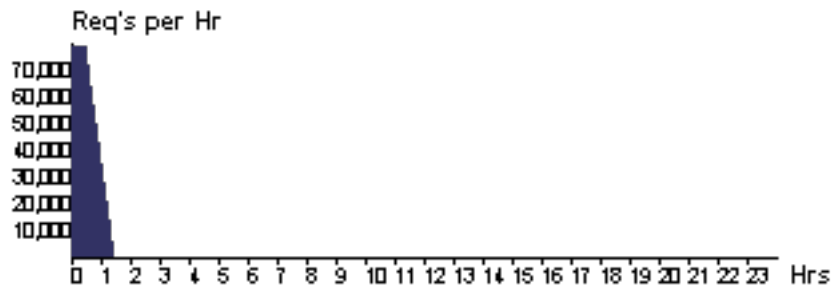
DC1



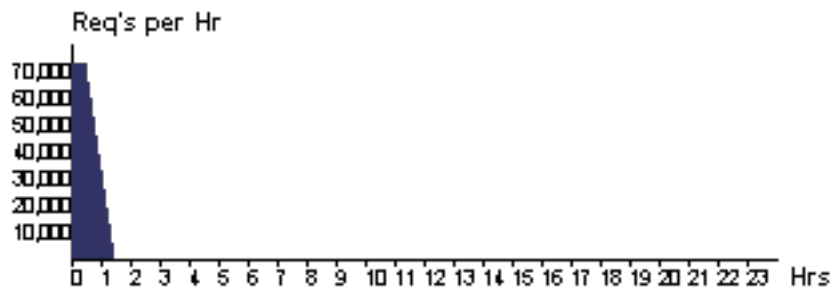
DC2



DC3



DC4



Cost

| | |
|----------------------------------|------|
| Total Virtual Machine Cost (\$): | 2.00 |
| Total Data Transfer Cost (\$): | 2.94 |
| Grand Total: (\$) | 4.94 |

| Data Center | VM Cost \$ | Data Transfer Cost \$ | Total \$ |
|-------------|------------|-----------------------|----------|
| DC2 | 0.50 | 0.70 | 1.20 |
| DC1 | 0.50 | 0.77 | 1.27 |
| DC4 | 0.50 | 0.71 | 1.21 |
| DC3 | 0.50 | 0.76 | 1.26 |