

## VMware® VMmark® V2.5.2 Results

Vendor and Hardware Platform: Fujitsu Server PRIMERGY RX2560 M2  
 Virtualization Platform: VMware ESXi 6.0.0 U1b Build 3380124  
 VMware vCenter Server : VMware vCenter Server 6.0.0 Build 3018524

**VMmark V2.5.2 Score =  
34.74 @ 28 Tiles**

|  |  |   |
|--|--|---|
| Number of Hosts: 2                                 | Uniform Hosts [yes/no]: yes                            | Total sockets/cores/threads in test: 4/88/176       |
| Tested By: Fujitsu                                 |  | Test Date: 03-18-2016                               |
| Performance Section<br><a href="#">Performance</a> | Configuration Section<br><a href="#">Configuration</a> | Notes Section<br><a href="#">Notes for Workload</a> |

### Performance

|        | mailserver |       |       | olio    |       |        | dvdstoreA |       |       | dvdstoreB |       |       | dvdstoreC |       |       |      |
|--------|------------|-------|-------|---------|-------|--------|-----------|-------|-------|-----------|-------|-------|-----------|-------|-------|------|
| TILE_0 | Actual     | Ratio | QoS   | Actual  | Ratio | QoS    | Actual    | Ratio | QoS   | Actual    | Ratio | QoS   | Actual    | Ratio | QoS   | GM   |
| p0     | 327.52     | 0.99  | 54.00 | 4720.05 | 1.02  | 111.30 | 4277.05   | 1.94  | 54.92 | 3052.22   | 2.01  | 62.61 | 2185.75   | 2.07  | 65.88 | 1.52 |
| p1     | 322.60     | 0.98  | 54.00 | 4709.90 | 1.01  | 140.87 | 4233.38   | 1.92  | 56.41 | 3255.85   | 2.14  | 62.61 | 2398.65   | 2.27  | 65.15 | 1.56 |
| p2     | 331.77     | 1.00  | 56.50 | 4686.18 | 1.01  | 163.10 | 4266.70   | 1.94  | 55.25 | 2997.80   | 1.97  | 65.27 | 2257.22   | 2.13  | 67.84 | 1.53 |
| TILE_1 | Actual     | Ratio | QoS   | Actual  | Ratio | QoS    | Actual    | Ratio | QoS   | Actual    | Ratio | QoS   | Actual    | Ratio | QoS   | GM   |
| p0     | 324.77     | 0.98  | 53.92 | 4711.82 | 1.02  | 112.19 | 4251.70   | 1.93  | 56.00 | 3040.88   | 2.00  | 63.22 | 2261.80   | 2.14  | 67.28 | 1.53 |
| p1     | 324.02     | 0.98  | 55.50 | 4699.80 | 1.01  | 132.51 | 4216.68   | 1.92  | 56.86 | 3135.28   | 2.06  | 63.40 | 2376.43   | 2.25  | 66.37 | 1.55 |
| p2     | 325.60     | 0.99  | 64.00 | 4683.70 | 1.01  | 158.26 | 4299.05   | 1.95  | 54.34 | 2997.62   | 1.97  | 65.48 | 2142.50   | 2.02  | 69.08 | 1.51 |
| TILE_2 | Actual     | Ratio | QoS   | Actual  | Ratio | QoS    | Actual    | Ratio | QoS   | Actual    | Ratio | QoS   | Actual    | Ratio | QoS   | GM   |
| p0     | 324.88     | 0.98  | 54.00 | 4729.40 | 1.02  | 116.22 | 4248.73   | 1.93  | 55.89 | 3138.40   | 2.07  | 63.32 | 2272.80   | 2.15  | 67.09 | 1.54 |
| p1     | 327.02     | 0.99  | 54.00 | 4695.52 | 1.01  | 149.70 | 4239.48   | 1.93  | 56.30 | 3135.32   | 2.06  | 63.41 | 2374.53   | 2.24  | 66.89 | 1.55 |
| p2     | 327.02     | 0.99  | 54.00 | 4679.68 | 1.01  | 159.73 | 4260.68   | 1.94  | 55.44 | 2976.22   | 1.96  | 66.23 | 2135.22   | 2.02  | 69.51 | 1.50 |
| TILE_3 | Actual     | Ratio | QoS   | Actual  | Ratio | QoS    | Actual    | Ratio | QoS   | Actual    | Ratio | QoS   | Actual    | Ratio | QoS   | GM   |
| p0     | 323.07     | 0.98  | 54.00 | 4722.77 | 1.02  | 114.99 | 4233.30   | 1.92  | 56.58 | 3121.72   | 2.06  | 64.11 | 2250.22   | 2.13  | 68.30 | 1.53 |
| p1     | 331.50     | 1.00  | 54.00 | 4697.55 | 1.01  | 142.50 | 4272.07   | 1.94  | 55.34 | 3036.12   | 2.00  | 63.29 | 2273.38   | 2.15  | 66.76 | 1.53 |
| p2     | 322.48     | 0.98  | 58.75 | 4687.05 | 1.01  | 157.10 | 4265.82   | 1.94  | 55.38 | 2978.47   | 1.96  | 66.33 | 2115.22   | 2.00  | 71.39 | 1.50 |
| TILE_4 | Actual     | Ratio | QoS   | Actual  | Ratio | QoS    | Actual    | Ratio | QoS   | Actual    | Ratio | QoS   | Actual    | Ratio | QoS   | GM   |
| p0     | 325.62     | 0.99  | 44.10 | 4736.60 | 1.02  | 107.22 | 4260.02   | 1.94  | 55.46 | 3196.97   | 2.11  | 60.59 | 2424.03   | 2.29  | 63.19 | 1.57 |
| p1     | 325.60     | 0.99  | 54.00 | 4696.73 | 1.01  | 130.10 | 4238.65   | 1.93  | 56.32 | 3204.65   | 2.11  | 60.10 | 2328.90   | 2.20  | 62.88 | 1.55 |
| p2     | 323.00     | 0.98  | 54.00 | 4686.60 | 1.01  | 147.19 | 4266.00   | 1.94  | 55.40 | 3053.57   | 2.01  | 62.67 | 2184.93   | 2.07  | 65.83 | 1.51 |
| TILE_5 | Actual     | Ratio | QoS   | Actual  | Ratio | QoS    | Actual    | Ratio | QoS   | Actual    | Ratio | QoS   | Actual    | Ratio | QoS   | GM   |
| p0     | 325.48     | 0.99  | 54.00 | 4723.05 | 1.02  | 109.90 | 4245.43   | 1.93  | 56.04 | 3212.72   | 2.12  | 59.73 | 2419.25   | 2.29  | 63.69 | 1.56 |

|                |        |       |       |         |       |        |         |       |       |         |       |       |         |       |       |      |
|----------------|--------|-------|-------|---------|-------|--------|---------|-------|-------|---------|-------|-------|---------|-------|-------|------|
| <b>p1</b>      | 325.77 | 0.99  | 54.00 | 4723.65 | 1.02  | 128.07 | 4240.73 | 1.93  | 56.11 | 3116.72 | 2.05  | 59.67 | 2216.57 | 2.09  | 64.07 | 1.53 |
| <b>p2</b>      | 330.27 | 1.00  | 55.75 | 4695.57 | 1.01  | 148.63 | 4290.25 | 1.95  | 54.37 | 3163.05 | 2.08  | 62.38 | 2277.32 | 2.15  | 66.26 | 1.55 |
| <b>TILE_6</b>  | Actual | Ratio | QoS   | Actual  | Ratio | QoS    | Actual  | Ratio | QoS   | Actual  | Ratio | QoS   | Actual  | Ratio | QoS   | GM   |
| <b>p0</b>      | 324.62 | 0.98  | 46.85 | 4711.27 | 1.02  | 118.38 | 4142.23 | 1.88  | 60.17 | 3094.32 | 2.04  | 60.84 | 2306.80 | 2.18  | 64.31 | 1.53 |
| <b>p1</b>      | 330.35 | 1.00  | 54.00 | 4662.60 | 1.00  | 154.67 | 4173.10 | 1.90  | 58.74 | 3212.65 | 2.12  | 60.30 | 2322.90 | 2.20  | 63.60 | 1.55 |
| <b>p2</b>      | 327.52 | 0.99  | 54.00 | 4671.68 | 1.01  | 164.17 | 4065.90 | 1.85  | 62.55 | 3133.70 | 2.06  | 63.48 | 2275.88 | 2.15  | 66.64 | 1.52 |
| <b>TILE_7</b>  | Actual | Ratio | QoS   | Actual  | Ratio | QoS    | Actual  | Ratio | QoS   | Actual  | Ratio | QoS   | Actual  | Ratio | QoS   | GM   |
| <b>p0</b>      | 326.00 | 0.99  | 48.23 | 4715.35 | 1.02  | 109.70 | 4136.43 | 1.88  | 60.27 | 3091.15 | 2.04  | 60.73 | 2315.95 | 2.19  | 64.09 | 1.53 |
| <b>p1</b>      | 326.88 | 0.99  | 54.00 | 4676.45 | 1.01  | 132.86 | 4174.65 | 1.90  | 58.85 | 3130.97 | 2.06  | 58.97 | 2235.50 | 2.11  | 62.84 | 1.52 |
| <b>p2</b>      | 328.15 | 0.99  | 54.00 | 4693.32 | 1.01  | 143.14 | 4074.03 | 1.85  | 62.45 | 3266.88 | 2.15  | 62.11 | 2391.47 | 2.26  | 65.80 | 1.55 |
| <b>TILE_8</b>  | Actual | Ratio | QoS   | Actual  | Ratio | QoS    | Actual  | Ratio | QoS   | Actual  | Ratio | QoS   | Actual  | Ratio | QoS   | GM   |
| <b>p0</b>      | 328.70 | 1.00  | 54.00 | 4733.80 | 1.02  | 111.72 | 4164.18 | 1.89  | 58.83 | 3209.38 | 2.11  | 59.66 | 2389.82 | 2.26  | 58.96 | 1.56 |
| <b>p1</b>      | 327.10 | 0.99  | 54.00 | 4676.82 | 1.01  | 136.58 | 4167.95 | 1.90  | 58.90 | 3097.25 | 2.04  | 59.92 | 2276.85 | 2.15  | 59.57 | 1.53 |
| <b>p2</b>      | 320.15 | 0.97  | 61.25 | 4692.40 | 1.01  | 154.95 | 4114.00 | 1.87  | 60.81 | 3155.05 | 2.08  | 62.29 | 2450.88 | 2.32  | 61.58 | 1.55 |
| <b>TILE_9</b>  | Actual | Ratio | QoS   | Actual  | Ratio | QoS    | Actual  | Ratio | QoS   | Actual  | Ratio | QoS   | Actual  | Ratio | QoS   | GM   |
| <b>p0</b>      | 330.82 | 1.00  | 54.00 | 4720.60 | 1.02  | 122.94 | 4165.07 | 1.89  | 58.78 | 3106.97 | 2.05  | 59.83 | 2294.35 | 2.17  | 58.57 | 1.54 |
| <b>p1</b>      | 324.95 | 0.98  | 54.00 | 4707.45 | 1.01  | 150.80 | 4167.00 | 1.89  | 58.89 | 3206.75 | 2.11  | 59.80 | 2405.80 | 2.27  | 58.28 | 1.55 |
| <b>p2</b>      | 329.23 | 1.00  | 60.00 | 4660.23 | 1.00  | 180.33 | 4096.48 | 1.86  | 61.29 | 3148.18 | 2.07  | 62.45 | 2452.88 | 2.32  | 61.34 | 1.55 |
| <b>TILE_10</b> | Actual | Ratio | QoS   | Actual  | Ratio | QoS    | Actual  | Ratio | QoS   | Actual  | Ratio | QoS   | Actual  | Ratio | QoS   | GM   |
| <b>p0</b>      | 328.73 | 1.00  | 53.05 | 4726.07 | 1.02  | 114.86 | 4134.93 | 1.88  | 59.71 | 3178.72 | 2.09  | 60.88 | 2384.15 | 2.25  | 59.25 | 1.55 |
| <b>p1</b>      | 326.32 | 0.99  | 53.90 | 4687.27 | 1.01  | 151.17 | 4150.07 | 1.89  | 59.48 | 3206.62 | 2.11  | 59.63 | 2391.45 | 2.26  | 58.73 | 1.55 |
| <b>p2</b>      | 326.50 | 0.99  | 64.00 | 4688.65 | 1.01  | 165.00 | 4058.95 | 1.85  | 62.81 | 3032.65 | 2.00  | 63.32 | 2341.53 | 2.21  | 61.96 | 1.52 |
| <b>TILE_11</b> | Actual | Ratio | QoS   | Actual  | Ratio | QoS    | Actual  | Ratio | QoS   | Actual  | Ratio | QoS   | Actual  | Ratio | QoS   | GM   |
| <b>p0</b>      | 330.68 | 1.00  | 54.00 | 4717.07 | 1.02  | 115.76 | 4117.12 | 1.87  | 60.58 | 3080.53 | 2.03  | 60.83 | 2268.40 | 2.14  | 60.17 | 1.53 |
| <b>p1</b>      | 326.60 | 0.99  | 54.00 | 4707.23 | 1.01  | 147.45 | 4154.68 | 1.89  | 59.56 | 3206.47 | 2.11  | 59.94 | 2498.82 | 2.36  | 59.08 | 1.57 |
| <b>p2</b>      | 330.57 | 1.00  | 61.25 | 4667.93 | 1.01  | 156.70 | 4084.03 | 1.86  | 61.96 | 3152.90 | 2.08  | 62.42 | 2361.95 | 2.23  | 60.71 | 1.54 |
| <b>TILE_12</b> | Actual | Ratio | QoS   | Actual  | Ratio | QoS    | Actual  | Ratio | QoS   | Actual  | Ratio | QoS   | Actual  | Ratio | QoS   | GM   |
| <b>p0</b>      | 323.07 | 0.98  | 54.00 | 4714.25 | 1.02  | 106.35 | 4189.05 | 1.90  | 58.70 | 3162.72 | 2.08  | 61.85 | 2283.47 | 2.16  | 65.74 | 1.53 |
| <b>p1</b>      | 324.12 | 0.98  | 54.25 | 4700.32 | 1.01  | 127.95 | 4189.68 | 1.91  | 58.78 | 3158.45 | 2.08  | 62.28 | 2388.43 | 2.26  | 65.10 | 1.55 |
| <b>p2</b>      | 321.85 | 0.97  | 64.00 | 4698.77 | 1.01  | 149.61 | 4135.88 | 1.88  | 60.49 | 3017.95 | 1.99  | 64.24 | 2159.07 | 2.04  | 67.72 | 1.50 |
| <b>TILE_13</b> | Actual | Ratio | QoS   | Actual  | Ratio | QoS    | Actual  | Ratio | QoS   | Actual  | Ratio | QoS   | Actual  | Ratio | QoS   | GM   |
| <b>p0</b>      | 327.15 | 0.99  | 54.00 | 4733.12 | 1.02  | 111.87 | 4189.20 | 1.90  | 58.54 | 3161.70 | 2.08  | 62.42 | 2267.20 | 2.14  | 66.99 | 1.54 |
| <b>p1</b>      | 327.50 | 0.99  | 54.00 | 4700.38 | 1.01  | 129.30 | 4187.43 | 1.90  | 58.49 | 3152.70 | 2.08  | 62.66 | 2384.75 | 2.25  | 65.99 | 1.55 |
| <b>p2</b>      | 324.30 | 0.98  | 63.75 | 4702.27 | 1.01  | 160.75 | 4138.60 | 1.88  | 60.36 | 3007.85 | 1.98  | 64.94 | 2145.72 | 2.03  | 68.88 | 1.50 |
| <b>TILE_14</b> | Actual | Ratio | QoS   | Actual  | Ratio | QoS    | Actual  | Ratio | QoS   | Actual  | Ratio | QoS   | Actual  | Ratio | QoS   | GM   |

|                |        |       |       |         |       |        |         |       |       |         |       |       |         |       |       |      |
|----------------|--------|-------|-------|---------|-------|--------|---------|-------|-------|---------|-------|-------|---------|-------|-------|------|
| <b>p0</b>      | 322.32 | 0.98  | 54.00 | 4733.77 | 1.02  | 106.45 | 4257.25 | 1.94  | 55.62 | 3216.78 | 2.12  | 64.21 | 2362.50 | 2.23  | 67.19 | 1.56 |
| <b>p1</b>      | 328.88 | 1.00  | 54.00 | 4705.05 | 1.01  | 129.86 | 4248.68 | 1.93  | 55.79 | 3042.10 | 2.00  | 63.22 | 2279.53 | 2.15  | 66.24 | 1.53 |
| <b>p2</b>      | 326.10 | 0.99  | 57.25 | 4699.68 | 1.01  | 140.60 | 4271.50 | 1.94  | 55.32 | 2971.62 | 1.96  | 66.78 | 2130.53 | 2.01  | 70.08 | 1.50 |
| <b>TILE_15</b> | Actual | Ratio | QoS   | Actual  | Ratio | QoS    | Actual  | Ratio | QoS   | Actual  | Ratio | QoS   | Actual  | Ratio | QoS   | GM   |
| <b>p0</b>      | 325.55 | 0.99  | 54.00 | 4721.57 | 1.02  | 108.61 | 4236.88 | 1.93  | 56.29 | 3110.15 | 2.05  | 65.04 | 2345.72 | 2.22  | 68.41 | 1.54 |
| <b>p1</b>      | 329.32 | 1.00  | 54.00 | 4702.93 | 1.01  | 131.97 | 4289.02 | 1.95  | 54.64 | 3141.50 | 2.07  | 63.39 | 2258.60 | 2.13  | 67.51 | 1.54 |
| <b>p2</b>      | 325.43 | 0.99  | 59.75 | 4681.00 | 1.01  | 147.18 | 4274.62 | 1.94  | 54.89 | 2981.62 | 1.96  | 66.35 | 2107.82 | 1.99  | 71.53 | 1.50 |
| <b>TILE_16</b> | Actual | Ratio | QoS   | Actual  | Ratio | QoS    | Actual  | Ratio | QoS   | Actual  | Ratio | QoS   | Actual  | Ratio | QoS   | GM   |
| <b>p0</b>      | 328.82 | 1.00  | 54.00 | 4726.10 | 1.02  | 110.27 | 4153.90 | 1.89  | 59.30 | 3229.78 | 2.13  | 58.62 | 2480.32 | 2.34  | 59.61 | 1.57 |
| <b>p1</b>      | 329.00 | 1.00  | 54.00 | 4679.60 | 1.01  | 140.77 | 4162.32 | 1.89  | 58.81 | 3137.88 | 2.07  | 58.08 | 2275.07 | 2.15  | 59.67 | 1.53 |
| <b>p2</b>      | 324.43 | 0.98  | 63.75 | 4669.62 | 1.01  | 157.42 | 4098.65 | 1.86  | 61.55 | 3194.88 | 2.10  | 60.30 | 2343.72 | 2.22  | 62.11 | 1.54 |
| <b>TILE_17</b> | Actual | Ratio | QoS   | Actual  | Ratio | QoS    | Actual  | Ratio | QoS   | Actual  | Ratio | QoS   | Actual  | Ratio | QoS   | GM   |
| <b>p0</b>      | 328.65 | 1.00  | 54.00 | 4698.45 | 1.01  | 115.76 | 4138.90 | 1.88  | 59.98 | 3141.97 | 2.07  | 58.07 | 2385.50 | 2.25  | 59.26 | 1.55 |
| <b>p1</b>      | 329.32 | 1.00  | 54.12 | 4704.25 | 1.01  | 138.97 | 4167.32 | 1.89  | 59.05 | 3252.93 | 2.14  | 57.87 | 2389.75 | 2.26  | 58.76 | 1.56 |
| <b>p2</b>      | 328.38 | 0.99  | 63.75 | 4654.93 | 1.00  | 170.07 | 4078.78 | 1.85  | 61.93 | 3186.47 | 2.10  | 60.65 | 2350.30 | 2.22  | 61.71 | 1.54 |
| <b>TILE_18</b> | Actual | Ratio | QoS   | Actual  | Ratio | QoS    | Actual  | Ratio | QoS   | Actual  | Ratio | QoS   | Actual  | Ratio | QoS   | GM   |
| <b>p0</b>      | 326.45 | 0.99  | 54.00 | 4726.68 | 1.02  | 106.99 | 4128.73 | 1.88  | 59.98 | 3121.18 | 2.06  | 59.00 | 2371.95 | 2.24  | 60.29 | 1.54 |
| <b>p1</b>      | 326.30 | 0.99  | 54.50 | 4691.25 | 1.01  | 138.84 | 4150.43 | 1.89  | 59.33 | 3148.93 | 2.07  | 57.59 | 2278.95 | 2.15  | 59.61 | 1.53 |
| <b>p2</b>      | 328.40 | 0.99  | 64.00 | 4700.40 | 1.01  | 147.11 | 4044.07 | 1.84  | 63.32 | 3161.50 | 2.08  | 61.92 | 2429.15 | 2.30  | 63.13 | 1.55 |
| <b>TILE_19</b> | Actual | Ratio | QoS   | Actual  | Ratio | QoS    | Actual  | Ratio | QoS   | Actual  | Ratio | QoS   | Actual  | Ratio | QoS   | GM   |
| <b>p0</b>      | 329.68 | 1.00  | 53.52 | 4727.27 | 1.02  | 107.79 | 4128.02 | 1.88  | 60.45 | 3112.15 | 2.05  | 59.18 | 2268.88 | 2.14  | 59.95 | 1.53 |
| <b>p1</b>      | 328.57 | 0.99  | 54.98 | 4723.93 | 1.02  | 133.26 | 4152.55 | 1.89  | 59.50 | 3251.75 | 2.14  | 57.80 | 2403.45 | 2.27  | 58.25 | 1.56 |
| <b>p2</b>      | 324.68 | 0.98  | 64.00 | 4700.75 | 1.01  | 147.88 | 4075.97 | 1.85  | 62.08 | 3187.50 | 2.10  | 60.89 | 2460.07 | 2.33  | 61.19 | 1.55 |
| <b>TILE_20</b> | Actual | Ratio | QoS   | Actual  | Ratio | QoS    | Actual  | Ratio | QoS   | Actual  | Ratio | QoS   | Actual  | Ratio | QoS   | GM   |
| <b>p0</b>      | 323.30 | 0.98  | 54.00 | 4729.15 | 1.02  | 106.78 | 4183.90 | 1.90  | 58.57 | 3068.18 | 2.02  | 61.46 | 2269.80 | 2.15  | 60.39 | 1.52 |
| <b>p1</b>      | 327.00 | 0.99  | 54.00 | 4717.32 | 1.02  | 132.65 | 4181.75 | 1.90  | 58.35 | 3174.45 | 2.09  | 61.19 | 2373.25 | 2.24  | 60.05 | 1.55 |
| <b>p2</b>      | 324.50 | 0.98  | 58.00 | 4696.38 | 1.01  | 151.92 | 4131.95 | 1.88  | 60.41 | 3026.68 | 1.99  | 63.55 | 2429.10 | 2.30  | 62.73 | 1.54 |
| <b>TILE_21</b> | Actual | Ratio | QoS   | Actual  | Ratio | QoS    | Actual  | Ratio | QoS   | Actual  | Ratio | QoS   | Actual  | Ratio | QoS   | GM   |
| <b>p0</b>      | 324.12 | 0.98  | 55.50 | 4738.35 | 1.02  | 110.76 | 4177.80 | 1.90  | 58.66 | 3161.82 | 2.08  | 62.21 | 2256.82 | 2.13  | 60.94 | 1.53 |
| <b>p1</b>      | 325.88 | 0.99  | 56.00 | 4694.85 | 1.01  | 127.48 | 4182.88 | 1.90  | 58.67 | 3161.35 | 2.08  | 61.98 | 2476.28 | 2.34  | 60.23 | 1.56 |
| <b>p2</b>      | 324.80 | 0.98  | 64.00 | 4695.45 | 1.01  | 161.52 | 4114.80 | 1.87  | 60.67 | 3007.72 | 1.98  | 64.67 | 2324.05 | 2.20  | 63.41 | 1.52 |
| <b>TILE_22</b> | Actual | Ratio | QoS   | Actual  | Ratio | QoS    | Actual  | Ratio | QoS   | Actual  | Ratio | QoS   | Actual  | Ratio | QoS   | GM   |
| <b>p0</b>      | 326.15 | 0.99  | 54.75 | 4738.25 | 1.02  | 105.36 | 4153.10 | 1.89  | 59.37 | 3039.70 | 2.00  | 62.65 | 2237.85 | 2.12  | 62.06 | 1.52 |
| <b>p1</b>      | 326.45 | 0.99  | 54.00 | 4686.43 | 1.01  | 136.49 | 4147.50 | 1.89  | 59.60 | 3159.40 | 2.08  | 62.11 | 2468.90 | 2.33  | 60.60 | 1.56 |
| <b>p2</b>      | 328.00 | 0.99  | 62.75 | 4701.73 | 1.01  | 150.70 | 4066.38 | 1.85  | 62.72 | 3087.05 | 2.03  | 65.37 | 2319.10 | 2.19  | 63.57 | 1.53 |

|                  |        |       |       |         |       |        |         |       |       |         |       |       |         |       |       |      |
|------------------|--------|-------|-------|---------|-------|--------|---------|-------|-------|---------|-------|-------|---------|-------|-------|------|
| <b>TILE_23</b>   | Actual | Ratio | QoS   | Actual  | Ratio | QoS    | Actual  | Ratio | QoS   | Actual  | Ratio | QoS   | Actual  | Ratio | QoS   | GM   |
| <b>p0</b>        | 324.45 | 0.98  | 63.90 | 4713.65 | 1.02  | 106.39 | 4140.45 | 1.88  | 60.15 | 3113.50 | 2.05  | 64.39 | 2345.43 | 2.22  | 61.92 | 1.54 |
| <b>p1</b>        | 332.88 | 1.01  | 64.00 | 4701.38 | 1.01  | 129.90 | 4177.35 | 1.90  | 58.76 | 3135.53 | 2.06  | 63.32 | 2462.05 | 2.33  | 61.03 | 1.56 |
| <b>p2</b>        | 326.93 | 0.99  | 64.00 | 4691.57 | 1.01  | 141.18 | 4102.23 | 1.87  | 61.65 | 2989.88 | 1.97  | 65.44 | 2221.95 | 2.10  | 63.48 | 1.50 |
| <b>TILE_24</b>   | Actual | Ratio | QoS   | Actual  | Ratio | QoS    | Actual  | Ratio | QoS   | Actual  | Ratio | QoS   | Actual  | Ratio | QoS   | GM   |
| <b>p0</b>        | 328.52 | 0.99  | 57.75 | 4736.12 | 1.02  | 108.66 | 4174.73 | 1.90  | 59.05 | 3169.15 | 2.09  | 61.67 | 2298.62 | 2.17  | 65.05 | 1.54 |
| <b>p1</b>        | 326.90 | 0.99  | 55.75 | 4712.62 | 1.02  | 139.34 | 4168.77 | 1.90  | 59.07 | 3070.03 | 2.02  | 61.66 | 2294.45 | 2.17  | 65.18 | 1.53 |
| <b>p2</b>        | 324.85 | 0.98  | 64.00 | 4665.35 | 1.01  | 157.60 | 4119.65 | 1.87  | 60.96 | 3133.03 | 2.06  | 63.51 | 2266.25 | 2.14  | 67.14 | 1.52 |
| <b>TILE_25</b>   | Actual | Ratio | QoS   | Actual  | Ratio | QoS    | Actual  | Ratio | QoS   | Actual  | Ratio | QoS   | Actual  | Ratio | QoS   | GM   |
| <b>p0</b>        | 328.68 | 1.00  | 60.42 | 4741.73 | 1.02  | 108.22 | 4176.27 | 1.90  | 59.04 | 3278.72 | 2.16  | 61.58 | 2382.53 | 2.25  | 65.90 | 1.56 |
| <b>p1</b>        | 330.00 | 1.00  | 59.05 | 4714.25 | 1.02  | 125.74 | 4204.35 | 1.91  | 58.32 | 3062.32 | 2.02  | 62.10 | 2275.93 | 2.15  | 66.49 | 1.53 |
| <b>p2</b>        | 324.68 | 0.98  | 64.00 | 4685.30 | 1.01  | 151.02 | 4125.25 | 1.88  | 60.96 | 3024.40 | 1.99  | 63.95 | 2150.32 | 2.03  | 68.39 | 1.50 |
| <b>TILE_26</b>   | Actual | Ratio | QoS   | Actual  | Ratio | QoS    | Actual  | Ratio | QoS   | Actual  | Ratio | QoS   | Actual  | Ratio | QoS   | GM   |
| <b>p0</b>        | 323.65 | 0.98  | 54.00 | 4730.65 | 1.02  | 106.36 | 4131.38 | 1.88  | 60.41 | 3136.53 | 2.07  | 63.56 | 2374.40 | 2.24  | 66.39 | 1.54 |
| <b>p1</b>        | 324.82 | 0.98  | 54.00 | 4694.65 | 1.01  | 135.07 | 4156.65 | 1.89  | 59.65 | 3058.00 | 2.01  | 62.18 | 2191.20 | 2.07  | 65.75 | 1.51 |
| <b>p2</b>        | 327.07 | 0.99  | 54.00 | 4704.05 | 1.01  | 146.75 | 4066.20 | 1.85  | 62.61 | 3105.88 | 2.05  | 64.90 | 2237.90 | 2.12  | 68.86 | 1.52 |
| <b>TILE_27</b>   | Actual | Ratio | QoS   | Actual  | Ratio | QoS    | Actual  | Ratio | QoS   | Actual  | Ratio | QoS   | Actual  | Ratio | QoS   | GM   |
| <b>p0</b>        | 326.35 | 0.99  | 68.75 | 4695.80 | 1.01  | 104.38 | 4115.02 | 1.87  | 61.07 | 3143.15 | 2.07  | 62.99 | 2366.65 | 2.24  | 66.88 | 1.54 |
| <b>p1</b>        | 325.95 | 0.99  | 64.00 | 4717.48 | 1.02  | 127.51 | 4173.52 | 1.90  | 59.08 | 3070.30 | 2.02  | 61.66 | 2180.38 | 2.06  | 66.26 | 1.51 |
| <b>p2</b>        | 329.40 | 1.00  | 64.00 | 4696.68 | 1.01  | 143.34 | 4079.85 | 1.86  | 62.74 | 3112.38 | 2.05  | 64.83 | 2234.40 | 2.11  | 69.29 | 1.52 |
| <b>p0_score:</b> | 43.13  |       |       |         |       |        |         |       |       |         |       |       |         |       |       |      |
| <b>p1_score:</b> | 43.21  |       |       |         |       |        |         |       |       |         |       |       |         |       |       |      |
| <b>p2_score:</b> | 42.64  |       |       |         |       |        |         |       |       |         |       |       |         |       |       |      |

|  |  |  |  |  |  |  |  |  |         |          |        |
|--|--|--|--|--|--|--|--|--|---------|----------|--------|
| <b>Infrastructure_Operations_Scores:</b> |  |  |  |  |  |  |  |  | vmotion | svmotion | deploy |
| <b>Completed_Ops_PerHour</b>             |  |  |  |  |  |  |  |  | 17.50   | 11.00    | 5.00   |
| <b>Avg_Seconds_To_Complete</b>           |  |  |  |  |  |  |  |  | 26.69   | 18.00    | 310.09 |
| <b>Failures</b>                          |  |  |  |  |  |  |  |  | 0.00    | 0.00     | 0.00   |
| <b>Ratio</b>                             |  |  |  |  |  |  |  |  | 1.09    | 1.22     | 1.25   |
| <b>Number_Of_Threads</b>                 |  |  |  |  |  |  |  |  | 1       | 1        | 1      |

|  |  |  |  |  |  |  |                                 |                  |
|--|--|--|--|--|--|--|---------------------------------|------------------|
| <b>Summary</b>                                 |  |  |  |  |  |  | Run_Is_Compliant                | Turbo_Setting:0  |
|  |  |  |  |  |  |  | Number_Of_Compliance_Issues(0)* | Median_Phase(p0) |
| <b>Unreviewed_VMmark2_Applications_Score</b>   |  |  |  |  |  |  | 43.13                           |                  |
| <b>Unreviewed_VMmark2_Infrastructure_Score</b> |  |  |  |  |  |  | 1.19                            |                  |
| <b>Unreviewed_VMmark2_Score</b>                |  |  |  |  |  |  | 34.74                           |                  |

## Configuration

| Virtualization Software   |   |
|---|---|
| Hypervisor Vendor, Product, Version, and Build / Availability Date (MM-DD-YYYY)                     | VMware ESXi 6.0.0 U1b Build 3380124 / 01-07-2016  |
| Datacenter Management Software Vendor, Product, Version, and Build / Availability Date (MM-DD-YYYY) | VMware vCenter Server 6.0.0 Build 3018524 / 09-16-2015  |
| Supplemental Software   | none  |
| Servers   |   |
| Quantity  | 2   |
| Server Manufacturer and Model   | Fujitsu Server PRIMERGY RX2560 M2   |
| Processor Vendor and Model  | Intel Xeon E5-2699 v4   |
| Processor Speed (GHz)   | 2.2   |
| Total Sockets/Total Cores/Total Threads   | 2 Sockets / 44 Cores / 88 Threads   |
| Primary Cache   | 32KB I + 32KB D on chip per core  |
| Secondary Cache   | 256KB I+D on chip per core  |
| Other Cache   | 55MB I+D on chip per chip L3  |
| BIOS Version  | V5.0.0.11 R1.5.0 for D3289-B1x  |
| Memory Size (in GB, Number of DIMMs)  | 512, 16   |
| Memory Type and Speed   | 32GB DIMMs 2Rx4 PC4-2400T ECC   |
| Disk Subsystem Type   | FC SAN  |
| Number of Disk Controllers  | 0   |
| Disk Controller Vendors and Models  |   |
| Number of Host Bus Adapters   | 1   |
| Host Bus Adapter Vendors and Models   | Dual port Emulex LPe16002   |
| Number of Network Controllers   | 2   |
| Network Controller Vendors and Models   | One Intel I350-T2 Dual Port 1GbE Adapter<br>One Emulex OneConnect OCe14000 Dual Port Adapter with 10Gb SFP+ DynamicLoM interface module |
| Other Hardware  | none  |

|   |  |
|---|--|
| Other Software  | none   |
| Hardware Availability Date (MM-DD-YYYY)               | 06-28-2016   |
| Software Availability Date (MM-DD-YYYY)               | 01-07-2016   |
| <b>Network</b>  |  |
| Network Switch Vendors and Models                     | Fujitsu PRIMERGY BX600 GbE Switch Blade 30/12,<br>Brocade VDX 6740   |
| Network Speed   | 1Gbps for SUT management and VMotion, 10Gbps for Clients and VMs   |
| <b>Storage</b>  |  |
| Array Vendors, Models, and Firmware Versions          | Two Fujitsu Server PRIMERGY RX300 S8, Firmware V4.6.5.4 R1.1.0<br>One Fujitsu ETERNUS DX100 S3, Firmware version V10L32-0000 |
| Fibre Channel Switch Vendors and Models               | Brocade 6510   |
| Disk Space Used                                       | 9.31TB   |
| Array Cache Size                                      | 1GB(Fujitsu Server PRIMERGY RX300 S8), 4GB(Fujitsu ETERNUS DX100)  |
| Total Number of Physical Disks Used                   | 2xSAS-HDD, 17xSAS-SSD, 4xPCIe-SSD  |
| Total Number of Enclosures/Pods/Shelves Used          | 3  |
| Number of Physical Disks Used per Enclosure/Pod/Shelf | Details in section Storage Notes   |
| Total Number of Storage Groups Used                   | 0  |
| Number of LUNs Used                                   | 41   |
| LUN Size and Number of Disks Per LUN                  | Details in section Storage Notes   |
| RAID Type   | 0  |
| Number of Members per RAID Set                        | Details in section Storage Notes   |
| Disk Vendors, Models, and Speeds                      | 2xSeagate, ST1200MM0007, 10krpm; 17xSSD Toshiba PX02SMF040; 4xFusion-io ioDrive2 1.2TB PCIe SSD                              |
| <b>Datacenter Management Server</b>                   |  |
| System Model  | Fujitsu Server PRIMERGY BX620 S5   |
| Processor Vendor and Model                            | Intel Xeon X5570   |
| Processor Speed (GHz)                                 | 2.93   |
| Total Sockets/Total Cores/Total Threads               | Hypervisor: 2 Sockets / 8 Cores / 16 Threads<br>Virtual Center VM: Details in section Datacenter Management Server Notes     |

|   |  |
|---|--|
| Memory  | Hypervisor: 24GB<br>Virtual Center VM: Details in section Datacenter Management Server Notes   |
| Network Controller(s)<br>Vendors and Models   | 3 Intel Dual port 82575EB  |
| Operating System, Version,<br>Bitness, and Service Pack                             | Hypervisor: VMware ESXi 5.1.0 Build 799733<br>Virtual Center VM: Details in section Datacenter Management Server Notes                                   |
| Other Hardware  | none   |
| Other Software  | none   |
| <b>Clients</b>  |  |
| Total Number of Clients /<br>Total Physical Clients /<br>Total Virtual Client Hosts | 29 / 1 / 2   |
| System Model(s)   | 1xFujitsu Server PRIMERGY BX620 S5 (Prime Client)<br>2xFujitsu Server PRIMERGY RX600 S6 (Virtual Client Hosts)   |
| Processor Vendor(s)<br>and Model(s)   | Prime Client: Intel Xeon Intel Xeon X5570<br>Virtual Client Hosts:<br>PRIMERGY RX600 S6: Intel Xeon E7-4870  |
| Processor Speed(s) (GHz)  | Prime Client: 2.93<br>Virtual Client Hosts:<br>PRIMERGY RX600 S6: 2.4  |
| Total Sockets/Total<br>Cores/Total Threads  | Prime Client: 2 Sockets / 8 Cores / 16 Threads<br>Virtual Client Hosts:<br>PRIMERGY RX600 S6: 4 Sockets / 40 Cores / 80 Threads                          |
| Memory per Physical<br>Client   | Prime Client: 12GB<br>Virtual Client Hosts:<br>PRIMERGY RX600 S6: 512GB  |
| Network Controller(s)<br>Vendors and Models   | Prime Client: Three Intel Dual Port 82575EB<br>Virtual Client Hosts:<br>PRIMERGY RX600 S6: Two Intel Dual Port 82576NS, Intel Dual Port 82599            |
| Operating System, Version,<br>Bitness, and Service Pack                             | Clients: Windows Server 2008 Enterprise 64-bit SP2<br>Virtual Client Hosts: VMware ESX 4.1 U2 Build 502767   |
| Number of Virtual Clients   | 28   |
| Number of vCPUs Per<br>Virtual Client   | 4  |
| Number of vMem (GB) Per<br>Virtual Client   | 4  |
| Virtual Client Networking<br>Notes  | All virtual clients were distributed evenly over 2 vSwitches per Virtual Client Host   |
| Virtual Client Storage<br>Notes   | none   |
| Other Hardware  | One Dual Port Emulex LPe12002 for each virtual client host, three shared Fujitsu ETERNUS DX80 with 24x300GB disks, one Brocade 5100 Fibre Channel Switch |
| Other Software  | none   |

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# Notes for Workload

## Virtualization Software Notes

- Server OS (ESXi 6.0.0 U1b 3380124) was installed using OEM installation image VMware-ESXi-6.0.update01-3380124-Fujitsu-v362-1.iso which was preloaded with Fujitsu device drivers. No additional driver updates were made after the OS was installed.
- CDROM removed for all VMs (default enabled)
- Config.HostAgent.log.level set to warning (default info)
- CPU shares set to high for all DS2DB VMs (default normal)
- CPU shares set to low for all Standby VMs (default normal)
- Floppy removed for all VMs (default enabled)
- Hardware version 8 used for all VMs
- Logging disabled for all VMs (default enabled)
- Logical CPU configuration changed for all Linux VMs to one socket with multiple cores (default: multiple sockets with one core per socket)
- sched.mem.maxmemctl = 0 set for all VMs (default defined through global parameter Mem.CtlMaxPercent)
- sched.mem.min and sched.mem.minsize set to the configured VM memory size (default 0)
- sched.mem.pin = TRUE set for all VMs (default FALSE)
- SCSI adapter type PVSCSI used for all Standby VMs (default LSI Logic parallel)
- SCSI adapter type PVSCSI used for all Mailserver and Linux VMs (default LSI Logic SAS)
- Syslog.global.defaultSize set to 112 (default 1024)
- VMware Tools build 10240 used for all VMs (default 10240)
- VMXNET3 enabled for all VMs (default VMXNET2)
- Vpx.Vpxa.config.log.level set to warning (default verbose)
- vSphere DRS Migration Threshold set to Fully Automated level 2

### Changes in esx.conf:

- /adv/Cpu/CreditAgePeriod = 1383 (default 3000)
- /adv/Cpu/HTWholeCoreThreshold = 0 (default 200)
- /adv/DataMover/HardwareAcceleratedInit = 0 (default 1)
- /adv/DataMover/HardwareAcceleratedMove = 0 (default 1)
- /adv/Disk/UseIOWorlds = 1 (default 0)
- /adv/Mem/CtlMaxPercent = 0 (default 65)
- /adv/Mem/ShareScanGHz = 0 (default 4)
- /adv/Net/MaxNetifRxQueueLen = 500 (default 100)
- /adv/Net/MaxNetifTxQueueLen = 1000 (default 500)
- /adv/Numa/LTermFairnessInterval = 0 (default 5)
- /adv/Numa/MigImbalanceThreshold = 57 (default 10)
- /adv/Numa/PageMigEnable = 0 (default 1)
- /adv/Numa/RebalancePeriod = 60000 (default 2000)
- /adv/Numa/SwapLoadEnable = 0 (default 1)
- /adv/Numa/SwapLocalityEnable = 0 (default 1)
- /adv/Power/CpuPolicy = static (default balanced)
- /adv/VMFS3/HardwareAcceleratedLocking = 0 (default 1)



## Server Notes

- Server BIOS settings:
  - COD Enable: Enable (default Auto)
  - Onboard SAS/SATA controller disabled (default enabled)
  - Onboard Serial COM1 disabled (default enabled)
  - Turbo Boost Technology: Enabled (Intel Turbo Boost up to 3.6GHz, default enabled)

## Networking Notes

- One dedicated VLAN for the systems under test, vCenter Server and Benchmark Controller (SUT-VLAN)
- One dedicated VLAN for the VMs and Clients (Load-VLAN)
- vSwitch Configuration:
  - vSwitch0 on vmnic4 for Service Console (1Gb/s)
  - vSwitch1 on vmnic5 for VMotion (1Gb/s)
  - vSwitch2 on vmnic0 (10Gb/s) All VMs except Olio and Mailserver VMs
  - vSwitch3 on vmnic1 (10Gb/s) Olio and Mailserver VMs

## Storage Notes

- First Fujitsu Server PRIMERGY RX300 S8 configured as a Fibre Channel Target:
  - Hardware details:
    - Two Intel Xeon E5-2667@3.3GHz processors
    - 128GB RAM (8x16 GB dual rank PC3-12800 Registered DDR3 / 1600 MHz DIMMs)
    - One QLogic QLE2562 8Gb FC HBA used as FC target controller
    - One Fujitsu RAID SAS 6G Controller with 1GB Cache and BBU (D3116)
    - 9x400GB SAS-SSDs Toshiba PX02SMF040
    - 2xFusion-io ioDrive2 1.2TB PCIe-SSD
  - Software details:
    - Operating System: SUSE Linux Enterprise Server 11 SP3 - 3.0.101-0.46 (64-bit)
    - Fibre Channel Target SW: LIO (part of SUSE Linux Enterprise Server 11 SP3)

### RAID configuration:

- SAS-SSD 1:
  - LUN 1: Storage system OS (12GB, this LUN is not counted in the Storage section)
  - LUN 2: Target LUN for Storage VMotion (10GB)
  - LUN 3: Source LUN for Deploy (10GB)
  - LUN 4: Target LUN for Deploy (10GB)
- SAS-SSD 2:
  - LUN 1: For Tile 0 Olio/Standby VMs and Mailserver VHDs (186GB)
  - LUN 2: For Tile 2 Olio/Standby VMs and Mailserver VHDs (186GB)
- SAS-SSD 3:

- LUN 1: For Tile 1 Olio/Standby VMs and Mailserver VHDs (186GB)
    - LUN 2: For Tile 3 Olio/Standby VMs and Mailserver VHDs (186GB)
  - SAS-SSD 4:
    - LUN 1: For Tile 8 Olio/Standby VMs and Mailserver VHDs (186GB)
    - LUN 2: For Tile 10 Olio/Standby VMs and Mailserver VHDs (186GB)
  - SAS-SSD 5:
    - LUN 1: For Tile 9 Olio/Standby VMs and Mailserver VHDs (186GB)
    - LUN 2: For Tile 11 Olio/Standby VMs and Mailserver VHDs (186GB)
  - SAS-SSD 6:
    - LUN 1: For Tile 16 Olio/Standby VMs and Mailserver VHDs (186GB)
    - LUN 2: For Tile 18 Olio/Standby VMs and Mailserver VHDs (186GB)
  - SAS-SSD 7:
    - LUN 1: For Tile 17 Olio/Standby VMs and Mailserver VHDs (186GB)
    - LUN 2: For Tile 19 Olio/Standby VMs and Mailserver VHDs (186GB)
  - SAS-SSD 8:
    - LUN 1: For Tile 24 Olio/Standby VMs and Mailserver VHDs (186GB)
  - SAS-SSD 9:
    - LUN 1: For Tile 25 Olio/Standby VMs and Mailserver VHDs (186GB)
  - First PCIe-SSD:
    - LUN 1: Mailserver configuration files and DS2 VMs for tiles 0, 8, 16, 24 (537GB)
    - LUN 2: Mailserver configuration files and DS2 VMs for tiles 2, 10, 18 (537GB)
  - Second PCIe-SSD:
    - LUN 1: Mailserver configuration files and DS2 VMs for tiles 1, 9, 17, 25 (537GB)
    - LUN 2: Mailserver configuration files and DS2 VMs for tiles 3, 11, 19 (537GB)
  - All LUNs were configured as block devices; no system memory was used for caching
- Second Fujitsu Server PRIMERGY RX300 S8 configured as a Fibre Channel Target:
    - Hardware details:
      - Two Intel Xeon E5-2667@3.3GHz processors
      - 128GB RAM (8x16 GB dual rank PC3-12800 Registered DDR3 / 1600 MHz DIMMs)
      - One QLogic QLE2562 8Gb FC HBA used as FC target controller
      - One Fujitsu RAID SAS 6G Controller with 1GB Cache and BBU (D3116)
      - 9x400GB SAS-SSDs Toshiba PX02SMF040
      - 2xFusion-io ioDrive2 1.2TB PCIe-SSD
    - Software details:
      - Operating System: SUSE Linux Enterprise Server 11 SP3 - 3.0.101-0.46 (64-bit)
      - Fibre Channel Target SW: LIO (part of SUSE Linux Enterprise Server 11 SP3)

## RAID configuration:

- SAS-SSD 1:(this SSD is not counted in the Storage section)
    - LUN 1: Storage system OS (12GB, this LUN is not counted in the Storage section)
  - SAS-SSD 2:
    - LUN 1: For Tile 4 Olio/Standby VMs and Mailserver VHDs (186GB)
    - LUN 2: For Tile 6 Olio/Standby VMs and Mailserver VHDs (186GB)
  - SAS-SSD 3:
    - LUN 1: For Tile 5 Olio/Standby VMs and Mailserver VHDs (186GB)
    - LUN 2: For Tile 7 Olio/Standby VMs and Mailserver VHDs (186GB)
  - SAS-SSD 4:
    - LUN 1: For Tile 12 Olio/Standby VMs and Mailserver VHDs (186GB)
    - LUN 2: For Tile 14 Olio/Standby VMs and Mailserver VHDs (186GB)
  - SAS-SSD 5:
    - LUN 1: For Tile 13 Olio/Standby VMs and Mailserver VHDs (186GB)
    - LUN 2: For Tile 15 Olio/Standby VMs and Mailserver VHDs (186GB)
  - SAS-SSD 6:
    - LUN 1: For Tile 20 Olio/Standby VMs and Mailserver VHDs (186GB)
    - LUN 2: For Tile 22 Olio/Standby VMs and Mailserver VHDs (186GB)
  - SAS-SSD 7:
    - LUN 1: For Tile 21 Olio/Standby VMs and Mailserver VHDs (186GB)
    - LUN 2: For Tile 23 Olio/Standby VMs and Mailserver VHDs (186GB)
  - SAS-SSD 8:
    - LUN 1: For Tile 26 Olio/Standby VMs and Mailserver VHDs (186GB)
  - SAS-SSD 9:
    - LUN 1: For Tile 27 Olio/Standby VMs and Mailserver VHDs (186GB)
  - First PCIe-SSD:
    - LUN 1: Mailserver configuration files and DS2 VMs for tiles 4, 12, 20, 26 (537GB)
    - LUN 2: Mailserver configuration files and DS2 VMs for tiles 6, 14, 22 (537GB)
  - Second PCIe-SSD:
    - LUN 1: Mailserver configuration files and DS2 VMs for tiles 5, 13, 21, 27 (537GB)
    - LUN 2: Mailserver configuration files and DS2 VMs for tiles 7, 15, 23 (537GB)
  - All LUNs were configured as block devices; no system memory was used for caching
- Fujitsu ETERNUS DX100 S3(2 disks)

- RAID set 0: (2 disks)
  - LUN 0: Boot/Console OS for SUT1 (11GB)
  - LUN 1: Boot/Console OS for SUT2 (11GB)

## Datacenter Management Server Notes

- Virtual Center realized as a VM running on a dedicated Hypervisor system:
  - Number of vCPUs: 4 (one vCPU per vSocket)
  - Size of vRAM: 10GB
  - Operating System: Windows Server 2008 R2 Enterprise 64-bit

## Operating System Notes

- Mailserver VMs: Microsoft Windows 2008 R2 Enterprise 64-bit.
  
- Linux VMs:
  - All SLES11 VMs were updated with SP2
  - VMXNET3 driver configured to use one receive and one request queue (default: number of queues matches the number of vCPUs)
  - Paravirtualized drivers (VMXNET3, PVSCSI, VMMEMCTL) compiled with gcc 4.3.4
  
- The file systems of all Linux and Standby VMs were aligned to a 4KB boundary

## Software Notes

- Mailserver VMs: Microsoft Exchange 2007 Enterprise x64 Edition updated with SP3.

## Client Notes

- Prime Client was running VMware vSphere PowerCLI 5.1 Release 1 Build 793510.
- Prime Client was updated via Windows Update.
- Virtual Client Hosts:
  - System 1 (PRIMERGY RX600 S6): Even numbered clients
  - System 2 (PRIMERGY RX600 S6): Odd numbered clients

## Other Notes

- One client used as a dedicated Benchmark Controller.
  
- TILEDELAY reduced to 29 seconds (default: 60 seconds)

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This is a full disclosure report for a VMmark benchmark result. All published VMmark results must be from fully-compliant tests for which a full disclosure report is publicly available.

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