

VMware® VMmark™ V1.1.1 Results

Vendor and Hardware Platform: Lenovo WQ R680 G7
Virtualization Platform: VMware ESXi 4.0 Update 2 (build 240223)

VMmark V1.1.1 Score =
73.20 @ 50 Tiles

Tested By: Intel

Test Date: 06/29/2010

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Performance

	webserver		javaserver		mailserver		fileserver		database		
TILE_0	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	GM
p0	1671.62	1.64	18146.53	1.09	1502.35	1.37	18.65	1.45	2290.15	1.53	1.41
p1	1686.47	1.66	18134.35	1.09	1367.62	1.25	17.99	1.40	2295.80	1.54	1.37
p2	1742.62	1.71	18129.35	1.09	1304.75	1.19	17.08	1.33	2306.47	1.55	1.35
TILE_1	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	GM
p0	1985.53	1.95	17687.90	1.06	1553.80	1.42	18.90	1.47	2296.60	1.54	1.46
p1	1985.88	1.95	18121.17	1.09	1494.05	1.36	18.94	1.48	2302.47	1.54	1.46
p2	1966.40	1.93	18132.70	1.09	1502.45	1.37	18.54	1.45	2314.15	1.55	1.45
TILE_2	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	GM
p0	2007.60	1.97	18123.28	1.09	1774.45	1.62	18.33	1.43	2290.78	1.53	1.50
p1	2011.72	1.97	18158.55	1.09	1742.05	1.59	18.25	1.42	2294.53	1.54	1.50
p2	2000.25	1.96	17682.38	1.06	1606.58	1.46	17.84	1.39	2308.20	1.55	1.46
TILE_3	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	GM
p0	1985.47	1.95	18144.12	1.09	1796.83	1.64	17.20	1.34	2293.25	1.54	1.48
p1	1982.03	1.95	17714.35	1.07	1836.78	1.67	17.07	1.33	2297.53	1.54	1.48
p2	1962.97	1.93	18141.22	1.09	1706.67	1.56	17.02	1.33	2311.35	1.55	1.46
TILE_4	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	GM
p0	1872.83	1.84	18138.97	1.09	1350.15	1.23	18.53	1.44	2333.47	1.56	1.41
p1	1968.15	1.93	18137.38	1.09	1385.33	1.26	18.39	1.43	2336.28	1.57	1.43
p2	1947.00	1.91	18126.97	1.09	1207.97	1.10	18.14	1.41	2340.38	1.57	1.38
TILE_5	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	GM
p0	1957.15	1.92	18140.40	1.09	1359.70	1.24	18.98	1.48	2302.40	1.54	1.43
p1	1934.60	1.90	17691.90	1.06	1192.62	1.09	18.97	1.48	2308.05	1.55	1.38
p2	1917.92	1.88	18144.75	1.09	1275.00	1.16	18.67	1.45	2316.93	1.55	1.40
TILE_6	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	GM

p0	2016.38	1.98	17691.65	1.06	1308.65	1.19	19.04	1.48	2299.55	1.54	1.42
p1	2015.08	1.98	18140.62	1.09	1308.10	1.19	18.93	1.48	2306.00	1.55	1.42
p2	2003.97	1.97	18143.17	1.09	1288.03	1.17	18.52	1.44	2317.97	1.55	1.41
TILE_7	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	GM
p0	1987.55	1.95	18124.38	1.09	1581.70	1.44	19.45	1.52	2334.28	1.56	1.49
p1	1985.28	1.95	17703.40	1.07	1526.47	1.39	19.33	1.51	2335.72	1.57	1.47
p2	1959.30	1.92	18150.65	1.09	1441.50	1.31	19.09	1.49	2343.75	1.57	1.45
TILE_8	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	GM
p0	2001.58	1.96	18155.05	1.09	1660.15	1.51	18.94	1.48	2307.38	1.55	1.49
p1	2007.00	1.97	17701.62	1.07	1608.60	1.47	18.79	1.46	2309.62	1.55	1.47
p2	1991.05	1.95	18141.42	1.09	1537.97	1.40	18.57	1.45	2318.47	1.55	1.46
TILE_9	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	GM
p0	1997.90	1.96	17720.78	1.07	1466.45	1.34	19.37	1.51	2329.47	1.56	1.46
p1	1985.30	1.95	18175.97	1.09	1302.62	1.19	19.35	1.51	2332.20	1.56	1.43
p2	1958.62	1.92	18177.62	1.09	1427.85	1.30	19.25	1.50	2339.95	1.57	1.45
TILE_10	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	GM
p0	1965.62	1.93	18121.45	1.09	1585.85	1.45	19.01	1.48	2298.82	1.54	1.47
p1	2006.17	1.97	18120.72	1.09	1601.17	1.46	18.77	1.46	2306.78	1.55	1.48
p2	1957.62	1.92	18140.90	1.09	1714.47	1.56	18.50	1.44	2320.28	1.55	1.49
TILE_11	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	GM
p0	1998.80	1.96	17715.60	1.07	1694.88	1.55	18.90	1.47	2304.03	1.54	1.49
p1	1986.62	1.95	18152.03	1.09	1633.85	1.49	18.69	1.46	2321.40	1.56	1.48
p2	1965.30	1.93	18142.95	1.09	1344.12	1.23	18.47	1.44	2330.18	1.56	1.42
TILE_12	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	GM
p0	1980.88	1.94	17726.35	1.07	1770.62	1.61	19.04	1.48	2326.80	1.56	1.51
p1	1983.70	1.95	18157.78	1.09	1640.12	1.50	18.85	1.47	2332.82	1.56	1.49
p2	1957.40	1.92	18169.10	1.09	1576.45	1.44	18.56	1.45	2344.40	1.57	1.47
TILE_13	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	GM
p0	1953.60	1.92	18117.85	1.09	1659.08	1.51	19.66	1.53	2329.68	1.56	1.50
p1	1935.15	1.90	18117.25	1.09	1487.53	1.36	19.44	1.52	2328.57	1.56	1.46
p2	1921.50	1.89	18115.45	1.09	1582.67	1.44	19.29	1.50	2336.43	1.57	1.48
TILE_14	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	GM
p0	2008.17	1.97	18113.53	1.09	1644.83	1.50	19.10	1.49	2326.90	1.56	1.50
p1	1985.58	1.95	18115.22	1.09	1771.20	1.61	18.81	1.47	2335.55	1.56	1.51
p2	2001.92	1.96	18124.33	1.09	1724.08	1.57	18.57	1.45	2335.68	1.57	1.50
TILE_15	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	GM

p0	1950.72	1.91	18155.85	1.09	1713.67	1.56	18.37	1.43	2337.50	1.57	1.49
p1	1923.62	1.89	18131.20	1.09	1451.28	1.32	18.01	1.40	2340.65	1.57	1.43
p2	1922.72	1.89	18146.95	1.09	1392.92	1.27	17.93	1.40	2344.32	1.57	1.42
TILE_16	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	GM
p0	1969.88	1.93	18150.83	1.09	1702.38	1.55	19.16	1.49	2320.25	1.55	1.50
p1	1990.92	1.95	17685.72	1.06	1766.30	1.61	18.96	1.48	2325.32	1.56	1.50
p2	1959.30	1.92	18147.08	1.09	1732.42	1.58	18.55	1.45	2337.85	1.57	1.50
TILE_17	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	GM
p0	1947.45	1.91	18151.40	1.09	1697.17	1.55	19.61	1.53	2326.15	1.56	1.50
p1	1981.30	1.94	18131.42	1.09	1654.30	1.51	19.40	1.51	2330.85	1.56	1.50
p2	1956.80	1.92	17692.90	1.06	1707.83	1.56	19.18	1.49	2336.57	1.57	1.49
TILE_18	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	GM
p0	1778.05	1.74	18143.95	1.09	1700.08	1.55	18.02	1.40	2367.78	1.59	1.46
p1	1771.22	1.74	18144.25	1.09	1694.10	1.54	17.67	1.38	2370.97	1.59	1.45
p2	1811.20	1.78	18141.62	1.09	1694.75	1.55	17.79	1.39	2372.38	1.59	1.46
TILE_19	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	GM
p0	1943.97	1.91	18124.17	1.09	1663.70	1.52	19.52	1.52	2355.03	1.58	1.50
p1	1923.08	1.89	18113.72	1.09	1603.10	1.46	19.43	1.51	2357.40	1.58	1.48
p2	1917.97	1.88	18120.78	1.09	1534.55	1.40	19.24	1.50	2362.15	1.58	1.47
TILE_20	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	GM
p0	1933.70	1.90	18135.62	1.09	1566.20	1.43	18.50	1.44	2358.55	1.58	1.46
p1	1914.12	1.88	18116.45	1.09	1670.78	1.52	17.43	1.36	2361.03	1.58	1.46
p2	1911.22	1.88	18113.90	1.09	1757.67	1.60	18.33	1.43	2363.97	1.58	1.49
TILE_21	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	GM
p0	1952.67	1.92	17665.67	1.06	1631.22	1.49	19.78	1.54	2362.20	1.58	1.49
p1	1920.20	1.88	18117.03	1.09	1663.72	1.52	19.62	1.53	2364.45	1.58	1.50
p2	1919.35	1.88	18111.00	1.09	1583.50	1.44	19.40	1.51	2365.25	1.58	1.48
TILE_22	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	GM
p0	1941.30	1.91	18148.78	1.09	1675.25	1.53	18.72	1.46	2366.50	1.59	1.49
p1	1913.08	1.88	18125.00	1.09	1625.22	1.48	18.50	1.44	2372.75	1.59	1.47
p2	1913.00	1.88	17686.10	1.06	1643.45	1.50	18.10	1.41	2376.35	1.59	1.46
TILE_23	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	GM
p0	1941.45	1.91	18177.72	1.09	1662.88	1.52	18.58	1.45	2368.05	1.59	1.49
p1	1912.05	1.88	17693.35	1.06	1744.70	1.59	18.17	1.42	2373.62	1.59	1.48
p2	1912.17	1.88	18143.95	1.09	1641.03	1.50	18.20	1.42	2375.07	1.59	1.47
TILE_24	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	GM

p0	1935.62	1.90	18160.03	1.09	1620.05	1.48	19.01	1.48	2345.03	1.57	1.48
p1	1904.33	1.87	18153.72	1.09	1666.40	1.52	18.81	1.47	2339.75	1.57	1.48
p2	1909.22	1.87	17692.33	1.06	1610.45	1.47	18.50	1.44	2342.25	1.57	1.46
TILE_25	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	GM
p0	1967.58	1.93	18172.03	1.09	1585.55	1.45	19.48	1.52	2365.07	1.58	1.49
p1	1970.08	1.93	18157.97	1.09	1671.03	1.52	19.35	1.51	2366.45	1.59	1.50
p2	1929.62	1.89	18139.60	1.09	1526.70	1.39	19.09	1.49	2369.55	1.59	1.47
TILE_26	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	GM
p0	1943.20	1.91	18175.50	1.09	1714.00	1.56	18.15	1.41	2368.65	1.59	1.49
p1	1912.42	1.88	18169.03	1.09	1691.70	1.54	17.57	1.37	2375.72	1.59	1.47
p2	1907.33	1.87	18169.12	1.09	1760.65	1.61	17.33	1.35	2372.32	1.59	1.48
TILE_27	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	GM
p0	1944.72	1.91	18148.80	1.09	1603.35	1.46	18.21	1.42	2372.32	1.59	1.47
p1	1962.15	1.93	18115.30	1.09	1696.50	1.55	17.76	1.38	2377.72	1.59	1.48
p2	1931.62	1.90	18130.80	1.09	1717.15	1.57	17.78	1.39	2378.62	1.59	1.48
TILE_28	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	GM
p0	1944.62	1.91	18200.08	1.10	1592.28	1.45	18.45	1.44	2341.62	1.57	1.47
p1	1988.67	1.95	18118.78	1.09	1679.12	1.53	18.00	1.40	2339.55	1.57	1.48
p2	1983.47	1.95	18124.47	1.09	1550.20	1.41	17.87	1.39	2341.60	1.57	1.46
TILE_29	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	GM
p0	1856.55	1.82	18154.05	1.09	1571.28	1.43	19.16	1.49	2196.40	1.47	1.44
p1	1827.65	1.79	18157.85	1.09	1725.67	1.57	19.09	1.49	2190.60	1.47	1.46
p2	1836.10	1.80	18170.58	1.09	1641.10	1.50	18.90	1.47	2188.95	1.47	1.45
TILE_30	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	GM
p0	1863.00	1.83	18157.05	1.09	1632.08	1.49	18.13	1.41	2206.62	1.48	1.44
p1	1960.70	1.92	18140.60	1.09	1657.78	1.51	17.77	1.38	2197.28	1.47	1.45
p2	1939.97	1.90	18128.42	1.09	1543.90	1.41	17.80	1.39	2195.47	1.47	1.43
TILE_31	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	GM
p0	1960.80	1.92	18161.45	1.09	1556.95	1.42	18.00	1.40	2370.38	1.59	1.46
p1	1936.97	1.90	18137.80	1.09	1683.55	1.53	17.62	1.37	2376.93	1.59	1.47
p2	1923.42	1.89	18122.70	1.09	1808.78	1.65	17.67	1.38	2378.93	1.59	1.49
TILE_32	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	GM
p0	1948.20	1.91	18169.08	1.09	1503.05	1.37	18.05	1.41	2348.05	1.57	1.45
p1	1929.50	1.89	18149.72	1.09	1573.22	1.43	17.72	1.38	2343.82	1.57	1.45
p2	1914.10	1.88	18170.50	1.09	1641.80	1.50	17.58	1.37	2345.35	1.57	1.46
TILE_33	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	GM

p0	1943.95	1.91	17697.90	1.07	1612.88	1.47	19.64	1.53	2366.45	1.59	1.49
p1	1933.15	1.90	18150.67	1.09	1697.25	1.55	19.39	1.51	2372.85	1.59	1.50
p2	1924.83	1.89	18142.78	1.09	1635.58	1.49	19.24	1.50	2373.03	1.59	1.49
TILE_34	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	GM
p0	1951.03	1.91	17694.10	1.07	1534.55	1.40	17.90	1.39	2309.62	1.55	1.44
p1	1922.47	1.89	18144.08	1.09	1649.30	1.50	17.67	1.38	2309.35	1.55	1.46
p2	1915.08	1.88	18135.17	1.09	1690.60	1.54	17.70	1.38	2313.93	1.55	1.47
TILE_35	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	GM
p0	1959.10	1.92	17664.42	1.06	1561.08	1.42	19.60	1.53	2373.25	1.59	1.48
p1	1924.00	1.89	18122.95	1.09	1677.33	1.53	19.42	1.51	2375.20	1.59	1.50
p2	1916.00	1.88	18117.97	1.09	1617.38	1.47	19.30	1.50	2377.40	1.59	1.49
TILE_36	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	GM
p0	1821.67	1.79	18166.92	1.09	1477.50	1.35	18.42	1.44	2370.72	1.59	1.43
p1	1856.08	1.82	18158.53	1.09	1597.47	1.46	18.10	1.41	2373.20	1.59	1.45
p2	1906.90	1.87	18144.58	1.09	1679.97	1.53	17.97	1.40	2371.72	1.59	1.47
TILE_37	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	GM
p0	1959.40	1.92	18121.45	1.09	1467.42	1.34	19.64	1.53	2369.32	1.59	1.47
p1	1927.10	1.89	18111.65	1.09	1621.45	1.48	19.24	1.50	2374.05	1.59	1.49
p2	1920.50	1.88	18117.42	1.09	1715.05	1.56	19.07	1.49	2377.15	1.59	1.50
TILE_38	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	GM
p0	1953.10	1.92	17719.75	1.07	1512.55	1.38	18.46	1.44	2349.22	1.57	1.45
p1	1929.45	1.89	18135.67	1.09	1627.97	1.48	18.04	1.41	2344.82	1.57	1.47
p2	1915.88	1.88	18155.67	1.09	1633.62	1.49	17.99	1.40	2348.07	1.57	1.47
TILE_39	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	GM
p0	1956.42	1.92	17705.42	1.07	1357.72	1.24	18.35	1.43	2375.55	1.59	1.42
p1	1931.40	1.90	18167.25	1.09	1694.35	1.54	18.06	1.41	2379.25	1.59	1.48
p2	1917.85	1.88	18158.92	1.09	1733.62	1.58	17.94	1.40	2382.30	1.60	1.49
TILE_40	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	GM
p0	1927.90	1.89	17693.15	1.06	1367.70	1.25	18.39	1.43	2369.35	1.59	1.42
p1	1900.85	1.87	18138.92	1.09	1581.97	1.44	18.04	1.41	2370.10	1.59	1.46
p2	1796.22	1.76	18141.30	1.09	1710.40	1.56	17.88	1.39	2368.47	1.59	1.46
TILE_41	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	GM
p0	1952.67	1.92	17705.30	1.07	1426.88	1.30	18.37	1.43	2330.07	1.56	1.43
p1	1924.88	1.89	18117.55	1.09	1671.95	1.52	17.94	1.40	2333.28	1.56	1.47
p2	1915.65	1.88	18114.67	1.09	1677.40	1.53	17.69	1.38	2346.78	1.57	1.47
TILE_42	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	Actual	Ratio	GM

Configuration

Server and Network	
Server Manufacturer and Model	Lenovo WQ R680 G7
Processor Vendor and Model	Eight-cores Intel Xeon X7560
Processor Speed (GHz)	2.26GHz
Total Sockets/Total Cores/Total Threads	4 Sockets / 32 Cores / 64 Threads
Primary Cache	32KB I + 32KB D on chip per core
Secondary Cache	256KB I+D on chip per core
Other Cache	24MB I+D on chip per chip L3
BIOS Version	QSSC-S4R.QCI.01.00.0026
Memory Size (in GB, Number of DIMMs)	384GB, 64
Memory Type and Speed	32x 8GB Dual Rank 1066MHz Registered ECC DDR3, 32x 4GB Quad Rank 1066MHz Registered ECC DDR3
Disk Subsystem Type	USB disk for operating System, SSD for VMs
Number of Disk Controllers	2
Disk Controller Vendors and Models	1 x Intel RAID Controller SRCAS28EP 1 x LSI MegaRAID SAS 8888ELP
Number of Host Bus Adapters	0
Host Bus Adapter Vendors and Models	N/A
Number of Network Controllers	3
Network Controller Vendors and Models	1 x 82576NS Gigabit Network Connection (quad-port, but only one used) 2 x 82598EB 10 Gigabit AT CX4 Network Connection (dual-port)
Network Switch Vendors and Models	1 x HP ProCurve 2910al-48G 1 x Cisco Linksys SR2024
Network Speed	10 Gigabit Ethernet with 4 x 10Gb ports, others are 1GB ports
Other Hardware	4GB USB key for VMware ESXi
Other Software	None.
Hardware Availability Date (MM-DD-YYYY)	07/06/2010
Software Availability Date (MM-DD-YYYY)	07/06/2010
Virtualization Software	
Vendor, Product, Version, and Build	VMware ESXi 4.0 Update 2 (build 240223)
Virtualization Type	Hardware Virtualization
Supplemental Software	None
Virtualization Software Availability Date (MM-DD-YYYY)	06/10/2010
Storage	

Array Vendors, Models, and Firmware Versions	2 x Newisys NDS-2240 2 x Dell PowerVault MD1220
Fibre Channel Switch Vendors and Models	None
Disk Space Used	3350GB for VMs
Array Cache Size	None
Total Number of Physical Disks Used	94
Total Number of Enclosures/Pods/Shelves Used	4
Total Number of Physical Disks per Enclosures/Pods/Shelves Used	#1: 23 #2: 23 #3: 24 #4: 24
Total Number of Storage Groups Used	94
Number LUNs Used	94
LUN Size and Number of Disks Per LUN	60GB for LUN#1 – LUN#46 30GB for LUN#47 – LUN#94 1 disk per LUN
RAID Type	RAID0
Number of Members per RAID Set	1
Disk Vendors, Models, and Speeds	46 x Intel SATA SSD, 3Gb/s, 64GB 48 x Intel SATA SSD, 3Gb/s, 32GB

Clients

Number of Clients	50
System Model(s)	EDATA ISP 1340 for Client#0 – Client#17 Supermicro 6026T-NTR+ for Client#18 – Client#49
Processor Vendor(s) and Model(s)	Intel Xeon 5160, Intel Xeon 5540
Processor Speed(s) (GHz)	3.0 for Client#0 – Client#17 2.53 for Client#18 – Client#49
Total Sockets/Total Cores/Total Threads	2 Sockets / 4 Cores / 4 Threads for Client#0 – Client#17 2 Sockets / 8 Cores / 16 Threads for Client#18 – Client#49
Memory per Client	2GB
Network Controller Vendors and Models	Intel PRO/1000 EB Network Connection
Operating System, Version, and Service Pack	Microsoft Windows Server 2003 Enterprise Edition, Service Pack 2
Other Hardware	None.
Other Software	None.

Notes for Workload

Server and Network Notes

1 Server:

- Processor Speed: Intel Turbo Boost Technology up to 2.66GHz

1 Storage settings:

- Path policy of each LUN storage set to “fixed” (default “most recently used”)
- For LUN#1 – LUN#9 and LUN#24 – LUN#32, each LUN contains one database VM, one javaserver VM and one mailservr VM
- For LUN#10 – LUN#17 and LUN#33 – LUN#40, each LUN contains one database VM, two javaserver VMs and one mailservr VM
- For LUN#18 – LUN#21 and LUN#41 – LUN#44, each LUN contains two database VMs and one mailservr VM
- For LUN#22 – LUN#23 and LUN#45 – LUN#46, each LUN contains two mailservr VMs
- For LUN#47 – LUN#65 and LUN#71 – LUN#89, each LUN contains one fileservr VM, one standby VM and one webservr VM
- For LUN#66 – LUN#67 and LUN#90 – LUN#91, each LUN contains one fileservr VM, two standby VMs and one webservr VM
- For LUN#68 – LUN#69 and LUN#92 – LUN#93, each LUN contains one fileservr VM, two webservr VMs
- For LUN#70 and LUN#94, each LUN contains two fileservr VMs and two standby VMs

1 Network settings:

- vSwitch0 bound to vmnic0 – Service Console
- vSwitch1 bound to vmnic4 – all VMs of tile#0, #4, #8, #12, #16, #20, #24, #28, #32, #36, #40, #44, #48
- vSwitch2 bound to vmnic6 – all VMs of tile#1, #5, #9, #13, #17, #21, #25, #29, #33, #37, #41, #45, #49
- vSwitch3 bound to vmnic5 – all VMs of tile#2, #6, #10, #14, #18, #22, #26, #30, #34, #38, #42, #46
- vSwitch4 bound to vmnic7 – all VMs of tile#3, #7, #11, #15, #19, #23, #27, #31, #35, #39, #43, #47
- Number of ports for vSwitch1 – vSwitch4 changed to 120 (default 56)

Virtualization Software Notes

1 Ethernet Adapter Type set to Enhanced vmxnet for all VMs

1 Disable ESX logging for all VMs

1 IDE and floppy devices removed (default enabled)

1 Cpu.HaltingIdleMsecPenalty value to 0 (default 100)

- 1 Net.vmxnetThroughputWeight to 255 (default is 0)
- 1 Disk.schedNumReqOutstanding set to 256 (default 32)
- 1 Net.MaxPortRxQueueLen set to 500 (default 80)
- 1 Net.MaxNetifRxQueueLen set to 1000 (default 100)
- 1 Net.MaxNetifTxQueueLen set to 1000 (default 500)
- 1 VMFS3.MaxHeapSizeMB set to 128 (default 80)
- 1 HostdStatsVMCount = "512" (default 0)
- 1 Net.UplinkKillAsyncTimeout set to 60000 (default 10000)
- 1 Net.UplinkAbortDisconnectTimeout set to 60000 (default 5000)
- 1 Disk.SchedQuantum set to 64 (default 8)
- 1 Disk.SchedQControlVMSwitches set to 1024 (default 6)
- 1 Disk.MaxResetLatency set to 60000 (default 2000)
- 1 Tcip2v6 disabled

Operating System Notes

- 1 Windows VMs were updated to Microsoft Windows Server 2003 SP2.
- 1 FileServer VMs guest OS are the international version specification

Software Notes

- 1 Database VMs are running MySQL 5.0.67-0
- 1 TILEDELAY set to 180 (default 600)
- 1 JavaServer/DELAYTIME set to "36" (default 540)
- 1 Standby/DELAYTIME set to "12" (default 170)
- 1 WebServer/DELAYTIME set to "15" (default 180)
- 1 Database/DELAYTIME set to "24" (default 360)
- 1 FileServer/DELAYTIME set to "80" (default 450)

Client Notes

None

Other Notes

1 The following parameters were altered from their default values in VMMARK.CONFIG

- ┆ TILEDELAY set to 180 (default 600)
- ┆ JavaServer/DELAYTIME set to "36" (default 540)
- ┆ Standby/DELAYTIME set to "12" (default 170)
- ┆ WebServer/DELAYTIME set to "15" (default 180)
- ┆ Database/DELAYTIME set to "24" (default 360)
- ┆ FileServer/DELAYTIME set to "80" (default 450)

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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