

VMmark® 3.1.1 Results

Server Vendor & Model: HPE ProLiant DL385 Gen11
Storage Vendor & Model: HPE Alletra 9060
Hypervisor: VMware ESXi 8.0 GA, Build 20513097
Datacenter Management Software: VMware vCenter Server 8.0 GA, Build 20519528

VMmark 3.1.1 Score =
40.19 @ 44 Tiles

Number of Hosts: 2	Uniform Hosts [yes/no]: yes	Total sockets/cores/threads in test: 4/384/768
Tested By: Hewlett Packard Enterprise		Test Date: 11-02-2022
Performance Section Performance	Configuration Section Configuration	Notes Section Notes for Workload

Performance

	weathervane			weathervaneE			dvdstoreA			dvdstoreB			dvdstoreC			
TILE_0	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	GM
p0	3574.16	0.99	1.33 0.03	568.50	0.99	0.58 0.09	928.77	1.26	887.97	633.30	1.27	1093.86	442.25	1.28	1200.95	1.15
p1	3569.75	0.99	1.35 0.03	568.98	0.99	0.40 0.01	917.62	1.25	921.51	651.27	1.30	1102.10	462.80	1.33	1192.76	1.16
p2	3547.94	0.99	1.19 0.03	565.32	0.99	0.32 0.04	929.42	1.27	888.90	638.27	1.28	1069.74	470.45	1.36	1168.99	1.16
TILE_1	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	GM
p0	3567.50	0.99	1.11 0.05	568.55	0.99	0.63 0.08	902.05	1.23	975.90	610.73	1.22	1201.61	424.00	1.22	1329.46	1.13
p1	3548.72	0.99	1.07 0.01	566.11	0.99	0.38 0.05	894.58	1.22	989.86	635.90	1.27	1179.70	442.18	1.28	1321.88	1.14
p2	3531.13	0.98	1.03 0.01	564.48	0.99	0.47 0.03	910.50	1.24	953.91	613.60	1.23	1158.45	423.02	1.22	1314.85	1.12
TILE_2	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	GM
p0	3562.01	0.99	1.61 0.10	566.30	0.99	0.48 0.11	918.38	1.25	934.03	619.33	1.24	1153.70	432.52	1.25	1282.93	1.14
p1	3543.79	0.98	1.58 0.08	559.17	0.98	0.39 0.06	906.90	1.24	955.27	642.58	1.28	1144.87	448.73	1.29	1281.07	1.15
p2	3519.18	0.98	1.48 0.07	559.56	0.98	0.34 0.01	924.80	1.26	915.14	629.88	1.26	1114.02	437.52	1.26	1236.14	1.14
TILE_3	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	GM
p0	3565.72	0.99	1.66 0.10	562.08	0.98	0.44 0.04	902.67	1.23	971.27	610.45	1.22	1190.82	422.77	1.22	1352.61	1.12
p1	3549.21	0.99	1.54 0.06	561.03	0.98	0.43 0.02	898.42	1.22	975.61	635.75	1.27	1156.06	445.70	1.29	1304.73	1.14
p2	3535.18	0.98	1.60 0.08	557.78	0.97	0.35 0.01	908.05	1.24	953.38	616.98	1.23	1166.43	426.32	1.23	1306.04	1.12
TILE_4	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	GM
p0	3572.11	0.99	1.48 0.06	572.63	1.00	0.67 0.11	912.25	1.24	945.09	620.05	1.24	1159.70	429.85	1.24	1289.61	1.14
p1	3558.68	0.99	1.47 0.07	569.59	1.00	0.59 0.04	908.20	1.24	962.11	640.23	1.28	1162.78	449.23	1.30	1294.72	1.15
p2	3542.89	0.98	1.47 0.06	563.90	0.99	0.41 0.03	921.92	1.26	920.09	628.80	1.26	1121.24	436.10	1.26	1252.85	1.14
TILE_5	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	GM
p0	3565.77	0.99	1.80 0.11	570.30	1.00	0.80 0.32	916.98	1.25	942.06	615.85	1.23	1167.43	428.00	1.23	1297.10	1.13
p1	3556.56	0.99	1.62 0.07	568.34	0.99	0.49 0.05	891.80	1.21	1001.13	628.30	1.26	1207.46	444.57	1.28	1319.03	1.14

p2	3544.50	0.99	1.48 0.07	563.76	0.99	0.41 0.06	914.60	1.25	951.33	621.12	1.24	1146.40	430.93	1.24	1285.32	1.13
TILE_6	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	GM
p0	3565.80	0.99	1.38 0.05	568.87	0.99	0.58 0.11	926.20	1.26	904.57	631.10	1.26	1104.67	440.00	1.27	1210.55	1.15
p1	3553.01	0.99	1.26 0.03	561.75	0.98	0.43 0.02	913.80	1.24	932.02	652.95	1.30	1100.92	458.00	1.32	1233.77	1.16
p2	3531.30	0.98	1.16 0.01	560.09	0.98	0.33 0.01	913.70	1.24	951.12	616.75	1.23	1160.43	425.35	1.23	1320.95	1.13
TILE_7	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	GM
p0	3564.09	0.99	2.09 0.16	567.68	0.99	0.82 0.34	914.73	1.25	942.25	618.20	1.24	1154.18	410.32	1.18	1271.45	1.12
p1	3548.23	0.99	1.92 0.10	567.65	0.99	0.64 0.10	890.38	1.21	1018.52	627.95	1.25	1219.37	459.55	1.33	1358.73	1.15
p2	3535.58	0.98	1.77 0.07	558.36	0.98	0.40 0.03	909.55	1.24	973.12	607.65	1.21	1210.76	419.73	1.21	1344.58	1.12
TILE_8	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	GM
p0	3576.43	0.99	1.30 0.06	567.88	0.99	0.64 0.08	921.00	1.25	921.95	630.27	1.26	1118.43	412.77	1.19	1266.32	1.13
p1	3564.07	0.99	1.12 0.06	563.40	0.98	0.36 0.08	906.55	1.23	948.97	647.40	1.29	1136.10	472.07	1.36	1272.85	1.16
p2	3551.43	0.99	1.01 0.02	556.74	0.97	0.41 0.02	920.92	1.25	929.88	604.90	1.21	1135.55	429.30	1.24	1290.36	1.12
TILE_9	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	GM
p0	3562.89	0.99	1.89 0.11	571.41	1.00	0.65 0.09	901.25	1.23	999.55	607.65	1.21	1209.14	399.93	1.15	1368.01	1.11
p1	3540.98	0.98	1.95 0.12	567.20	0.99	0.60 0.06	889.92	1.21	1003.00	626.80	1.25	1213.45	460.77	1.33	1333.74	1.14
p2	3529.19	0.98	1.95 0.12	564.54	0.99	0.43 0.14	894.23	1.22	1012.46	581.35	1.16	1239.26	411.60	1.19	1411.09	1.10
TILE_10	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	GM
p0	3567.95	0.99	1.12 0.01	571.38	1.00	0.83 0.36	920.88	1.25	925.93	605.60	1.21	1125.27	428.23	1.23	1290.11	1.13
p1	3552.02	0.99	1.08 0.02	569.89	1.00	0.51 0.06	916.33	1.25	927.90	676.00	1.35	1096.08	478.40	1.38	1228.56	1.18
p2	3540.09	0.98	1.05 0.03	562.69	0.98	0.39 0.05	919.50	1.25	931.77	608.15	1.22	1133.01	426.93	1.23	1298.73	1.13
TILE_11	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	GM
p0	3578.55	0.99	1.60 0.08	562.91	0.98	0.49 0.09	898.05	1.22	1000.35	586.52	1.17	1219.52	416.32	1.20	1387.34	1.11
p1	3557.22	0.99	1.59 0.07	558.18	0.98	0.36 0.06	889.15	1.21	1019.35	626.40	1.25	1217.76	454.85	1.31	1376.58	1.14
p2	3544.99	0.99	1.57 0.07	555.63	0.97	0.46 0.07	896.38	1.22	1018.48	603.15	1.21	1252.68	407.15	1.17	1440.70	1.11
TILE_12	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	GM
p0	3562.31	0.99	1.27 0.04	573.21	1.00	0.74 0.28	901.08	1.23	1005.38	607.17	1.21	1235.04	415.38	1.20	1387.53	1.12
p1	3554.04	0.99	1.32 0.04	572.08	1.00	0.65 0.13	893.15	1.22	1016.87	628.23	1.26	1220.29	455.02	1.31	1379.90	1.15
p2	3542.23	0.98	1.36 0.04	570.19	1.00	0.65 0.11	915.45	1.25	955.81	617.25	1.23	1181.00	422.43	1.22	1346.17	1.13
TILE_13	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	GM
p0	3565.46	0.99	1.87 0.10	569.02	0.99	0.38 0.01	898.48	1.22	1009.47	607.10	1.21	1237.23	413.20	1.19	1403.35	1.12
p1	3554.37	0.99	1.85 0.08	565.16	0.99	0.42 0.08	889.17	1.21	1023.22	630.10	1.26	1215.87	453.20	1.31	1395.76	1.14
p2	3537.37	0.98	1.78 0.04	562.61	0.98	0.40 0.05	904.90	1.23	976.29	612.15	1.22	1203.54	397.88	1.15	1387.48	1.11
TILE_14	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	GM
p0	3573.09	0.99	1.42 0.06	568.65	0.99	0.46 0.05	910.60	1.24	963.63	614.92	1.23	1194.40	421.20	1.21	1355.40	1.13
p1	3559.08	0.99	1.49 0.05	562.21	0.98	0.39 0.07	899.08	1.22	995.58	636.40	1.27	1174.19	457.93	1.32	1356.58	1.15
p2	3535.19	0.98	1.45 0.05	564.56	0.99	0.37 0.03	924.52	1.26	914.32	629.83	1.26	1116.94	430.48	1.24	1268.59	1.14
TILE_15	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	GM

p0	3572.09	0.99	1.70 0.07	571.61	1.00	0.63 0.23	899.77	1.23	1003.03	612.83	1.22	1211.99	412.82	1.19	1394.11	1.12
p1	3556.03	0.99	1.66 0.06	565.10	0.99	0.48 0.01	891.52	1.21	1033.50	624.00	1.25	1239.24	449.65	1.30	1413.88	1.14
p2	3546.07	0.99	1.57 0.03	563.34	0.98	0.40 0.03	904.00	1.23	982.48	612.38	1.22	1206.77	419.98	1.21	1361.32	1.12
TILE_16	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	GM
p0	3580.92	1.00	1.18 0.02	565.50	0.99	0.52 0.10	910.70	1.24	964.72	617.05	1.23	1190.65	420.60	1.21	1344.23	1.13
p1	3572.25	0.99	1.10 0.01	557.82	0.97	0.42 0.04	914.25	1.25	948.33	644.02	1.29	1136.50	468.95	1.35	1276.82	1.16
p2	3558.18	0.99	1.07 0.01	554.05	0.97	0.39 0.03	930.15	1.27	906.52	630.62	1.26	1107.00	409.43	1.18	1293.73	1.13
TILE_17	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	GM
p0	3572.22	0.99	1.71 0.13	570.00	1.00	0.51 0.11	905.05	1.23	972.08	616.35	1.23	1192.16	420.38	1.21	1360.10	1.13
p1	3557.53	0.99	1.83 0.14	564.20	0.99	0.38 0.02	891.67	1.21	1003.51	629.50	1.26	1197.92	461.95	1.33	1316.58	1.15
p2	3549.05	0.99	1.64 0.09	561.13	0.98	0.43 0.08	906.98	1.24	985.26	611.02	1.22	1208.19	416.27	1.20	1377.91	1.12
TILE_18	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	GM
p0	3560.07	0.99	1.78 0.12	571.62	1.00	0.59 0.19	900.50	1.23	1017.38	600.27	1.20	1265.82	405.30	1.17	1458.98	1.11
p1	3549.39	0.99	1.63 0.07	572.66	1.00	0.61 0.05	883.23	1.20	1037.77	627.08	1.25	1235.63	430.48	1.24	1405.98	1.13
p2	3533.30	0.98	1.58 0.06	568.55	0.99	0.64 0.10	913.98	1.24	956.39	622.62	1.24	1171.08	417.93	1.21	1352.34	1.13
TILE_19	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	GM
p0	3554.81	0.99	1.88 0.11	568.42	0.99	0.59 0.20	896.40	1.22	1023.27	603.58	1.21	1240.77	408.73	1.18	1431.42	1.11
p1	3539.51	0.98	1.77 0.09	562.96	0.98	0.47 0.04	883.48	1.20	1051.89	615.73	1.23	1263.75	446.60	1.29	1427.83	1.13
p2	3527.50	0.98	1.73 0.08	563.73	0.99	0.43 0.08	915.17	1.25	957.13	618.12	1.23	1175.41	399.07	1.15	1371.88	1.11
TILE_20	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	GM
p0	3572.01	0.99	1.36 0.04	571.52	1.00	0.56 0.14	907.15	1.24	965.67	623.83	1.25	1149.19	423.70	1.22	1319.51	1.13
p1	3558.68	0.99	1.30 0.04	565.83	0.99	0.50 0.08	909.62	1.24	967.90	627.10	1.25	1216.19	436.30	1.26	1362.20	1.14
p2	3552.00	0.99	1.20 0.01	557.87	0.97	0.36 0.04	909.25	1.24	978.32	594.67	1.19	1185.21	417.10	1.20	1386.59	1.11
TILE_21	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	GM
p0	3556.94	0.99	1.78 0.14	567.34	0.99	0.50 0.05	889.00	1.21	1032.32	608.27	1.22	1224.17	430.23	1.24	1402.10	1.12
p1	3549.30	0.99	1.70 0.08	561.34	0.98	0.32 0.08	894.27	1.22	1027.48	620.58	1.24	1264.99	425.85	1.23	1461.59	1.12
p2	3529.31	0.98	1.55 0.05	556.30	0.97	0.40 0.02	902.02	1.23	986.90	590.08	1.18	1212.39	415.52	1.20	1390.74	1.11
TILE_22	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	GM
p0	3573.18	0.99	1.12 0.02	568.80	0.99	0.55 0.16	912.27	1.24	961.73	622.12	1.24	1148.39	444.73	1.28	1320.83	1.14
p1	3564.52	0.99	1.09 0.01	562.93	0.98	0.65 0.02	910.85	1.24	960.46	616.52	1.23	1180.82	440.15	1.27	1341.86	1.14
p2	3544.56	0.99	1.04 0.01	559.50	0.98	0.42 0.03	918.50	1.25	929.31	629.08	1.26	1116.17	427.55	1.23	1299.83	1.13
TILE_23	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	GM
p0	3576.16	0.99	1.74 0.09	569.68	1.00	0.63 0.19	890.60	1.21	1030.14	606.50	1.21	1228.95	426.95	1.23	1431.10	1.12
p1	3562.94	0.99	1.83 0.11	565.30	0.99	0.38 0.01	908.67	1.24	960.67	616.73	1.23	1173.16	441.52	1.27	1338.57	1.14
p2	3542.35	0.98	1.67 0.09	562.47	0.98	0.37 0.01	903.05	1.23	977.95	614.90	1.23	1201.33	418.40	1.21	1354.64	1.12
TILE_24	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	GM
p0	3577.90	0.99	1.26 0.05	565.93	0.99	0.36 0.03	893.20	1.22	1028.63	625.80	1.25	1246.59	425.50	1.23	1442.83	1.13

p1	3572.62	0.99	1.16 0.03	563.42	0.98	0.39 0.06	909.52	1.24	968.81	613.12	1.23	1193.43	440.75	1.27	1341.25	1.14
p2	3551.74	0.99	1.14 0.02	559.97	0.98	0.45 0.04	915.17	1.25	950.85	624.83	1.25	1156.48	421.88	1.22	1339.89	1.13
TILE_25	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	GM
p0	3572.07	0.99	1.70 0.05	565.11	0.99	0.39 0.13	882.27	1.20	1069.46	617.17	1.23	1270.44	423.90	1.22	1459.64	1.12
p1	3555.64	0.99	1.73 0.07	561.86	0.98	0.43 0.01	886.55	1.21	1052.82	596.90	1.19	1268.04	422.35	1.22	1467.57	1.11
p2	3537.00	0.98	1.78 0.14	557.36	0.97	0.41 0.04	909.92	1.24	971.97	612.15	1.22	1194.97	416.52	1.20	1365.86	1.12
TILE_26	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	GM
p0	3578.79	0.99	1.23 0.03	569.60	1.00	0.52 0.06	914.48	1.25	946.18	645.12	1.29	1139.05	449.55	1.30	1286.93	1.16
p1	3561.50	0.99	1.11 0.02	566.43	0.99	0.37 0.02	914.02	1.24	954.88	622.12	1.24	1150.57	440.73	1.27	1326.11	1.14
p2	3551.31	0.99	1.11 0.02	564.35	0.99	0.41 0.06	923.27	1.26	923.54	624.85	1.25	1145.79	428.40	1.24	1306.11	1.14
TILE_27	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	GM
p0	3569.95	0.99	1.21 0.03	572.94	1.00	0.66 0.16	899.20	1.22	987.85	639.65	1.28	1180.87	438.35	1.26	1360.58	1.14
p1	3560.86	0.99	1.04 0.01	568.95	0.99	0.62 0.18	897.95	1.22	1007.95	606.15	1.21	1232.94	427.25	1.23	1419.44	1.12
p2	3540.55	0.98	1.04 0.01	566.41	0.99	0.46 0.07	890.15	1.21	1029.57	602.08	1.20	1245.33	405.32	1.17	1452.59	1.11
TILE_28	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	GM
p0	3571.50	0.99	1.13 0.01	570.29	1.00	0.61 0.03	899.30	1.22	1002.52	631.98	1.26	1213.09	433.70	1.25	1394.35	1.14
p1	3556.68	0.99	1.15 0.02	568.77	0.99	0.37 0.02	909.48	1.24	966.85	619.77	1.24	1170.41	436.40	1.26	1371.09	1.14
p2	3535.03	0.98	1.15 0.02	565.12	0.99	0.47 0.03	910.83	1.24	967.77	620.67	1.24	1171.05	421.82	1.22	1348.27	1.13
TILE_29	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	GM
p0	3567.80	0.99	1.10 0.01	566.95	0.99	0.47 0.11	892.60	1.22	1021.30	628.27	1.26	1223.02	429.25	1.24	1406.20	1.13
p1	3558.72	0.99	1.03 0.01	564.25	0.99	0.42 0.06	896.70	1.22	1021.57	600.38	1.20	1253.34	429.32	1.24	1423.96	1.12
p2	3534.15	0.98	0.98 0.02	560.63	0.98	0.36 0.03	903.75	1.23	985.27	609.92	1.22	1208.03	414.50	1.20	1381.86	1.12
TILE_30	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	GM
p0	3574.84	0.99	1.19 0.03	569.87	1.00	0.71 0.25	899.45	1.22	1007.34	630.88	1.26	1227.89	435.00	1.25	1398.15	1.14
p1	3559.64	0.99	1.20 0.03	562.43	0.98	0.39 0.01	900.10	1.23	1009.78	607.17	1.21	1231.13	429.40	1.24	1417.38	1.12
p2	3547.35	0.99	1.13 0.02	566.08	0.99	0.39 0.02	907.90	1.24	987.29	612.98	1.22	1204.59	419.25	1.21	1380.74	1.12
TILE_31	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	GM
p0	3572.05	0.99	1.09 0.03	565.13	0.99	0.44 0.12	882.98	1.20	1054.14	618.80	1.24	1275.45	425.48	1.23	1440.68	1.12
p1	3551.41	0.99	1.02 0.01	565.74	0.99	0.43 0.04	891.58	1.21	1023.38	601.90	1.20	1261.31	408.65	1.18	1439.59	1.11
p2	3530.64	0.98	0.98 0.01	563.01	0.98	0.45 0.02	894.48	1.22	1010.25	605.08	1.21	1249.28	431.73	1.24	1419.34	1.12
TILE_32	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	GM
p0	3559.36	0.99	1.55 0.07	570.61	1.00	0.61 0.09	896.95	1.22	996.84	639.88	1.28	1171.36	439.77	1.27	1337.16	1.14
p1	3554.49	0.99	1.43 0.06	566.94	0.99	0.54 0.12	920.50	1.25	940.76	614.35	1.23	1180.92	423.12	1.22	1332.15	1.13
p2	3535.63	0.98	1.44 0.04	563.74	0.99	0.43 0.08	902.23	1.23	983.50	618.27	1.24	1177.64	438.93	1.27	1357.09	1.13
TILE_33	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	GM
p0	3571.43	0.99	1.63 0.05	563.64	0.99	0.41 0.07	881.25	1.20	1049.30	626.25	1.25	1246.26	427.65	1.23	1428.37	1.13
p1	3553.02	0.99	1.60 0.07	556.11	0.97	0.45 0.03	903.92	1.23	987.32	605.73	1.21	1243.03	411.27	1.19	1423.85	1.11
p2	3537.99	0.98	1.53 0.06	549.39	0.96	0.34 0.07	886.60	1.21	1049.56	604.95	1.21	1237.74	427.98	1.23	1436.49	1.11

TILE_34	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	GM
p0	3566.98	0.99	1.44 0.07	568.03	0.99	0.35 0.02	896.60	1.22	1013.71	634.90	1.27	1202.94	437.52	1.26	1369.04	1.14
p1	3550.84	0.99	1.28 0.04	566.80	0.99	0.43 0.04	916.17	1.25	946.43	618.23	1.24	1179.02	425.65	1.23	1322.39	1.13
p2	3532.64	0.98	1.20 0.04	565.29	0.99	0.35 0.01	903.00	1.23	982.00	620.08	1.24	1166.67	443.98	1.28	1329.15	1.14
TILE_35	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	GM
p0	3577.85	0.99	1.09 0.03	569.65	1.00	0.51 0.05	884.88	1.21	1038.32	628.90	1.26	1212.35	453.73	1.31	1387.71	1.14
p1	3565.81	0.99	1.09 0.01	565.41	0.99	0.43 0.06	904.30	1.23	994.87	586.77	1.17	1224.72	416.98	1.20	1388.49	1.11
p2	3549.04	0.99	1.00 0.01	560.72	0.98	0.40 0.03	875.90	1.19	1081.00	614.12	1.23	1299.52	424.15	1.22	1475.84	1.12
TILE_36	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	GM
p0	3574.46	0.99	1.83 0.15	560.49	0.98	0.43 0.14	909.80	1.24	950.80	653.40	1.31	1107.58	471.45	1.36	1271.20	1.16
p1	3567.52	0.99	1.64 0.09	561.68	0.98	0.43 0.09	926.77	1.26	920.75	605.05	1.21	1137.33	427.25	1.23	1308.02	1.13
p2	3552.11	0.99	1.48 0.06	559.76	0.98	0.41 0.02	918.20	1.25	939.83	651.50	1.30	1113.38	451.35	1.30	1273.12	1.15
TILE_37	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	GM
p0	3572.68	0.99	1.80 0.12	570.26	1.00	0.54 0.08	877.83	1.20	1064.88	617.80	1.23	1271.74	448.00	1.29	1414.77	1.14
p1	3559.30	0.99	1.65 0.08	564.94	0.99	0.38 0.04	907.65	1.24	969.35	614.15	1.23	1175.63	422.77	1.22	1337.95	1.13
p2	3549.04	0.99	1.57 0.06	562.40	0.98	0.41 0.04	891.75	1.21	1009.77	633.52	1.27	1198.93	442.73	1.28	1340.46	1.14
TILE_38	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	GM
p0	3583.16	1.00	1.18 0.04	566.50	0.99	0.59 0.11	903.20	1.23	974.25	637.45	1.27	1164.96	467.88	1.35	1299.28	1.16
p1	3564.85	0.99	1.13 0.04	560.70	0.98	0.50 0.09	917.58	1.25	947.59	621.77	1.24	1165.65	420.23	1.21	1360.85	1.13
p2	3541.79	0.98	1.09 0.02	558.29	0.98	0.48 0.07	902.62	1.23	968.15	643.62	1.29	1144.77	446.38	1.29	1308.15	1.14
TILE_39	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	GM
p0	3566.89	0.99	1.93 0.12	568.17	0.99	0.49 0.03	896.23	1.22	984.51	632.77	1.26	1193.62	464.62	1.34	1328.42	1.15
p1	3556.92	0.99	1.88 0.22	569.35	1.00	0.42 0.03	905.80	1.23	980.16	610.77	1.22	1203.46	416.30	1.20	1386.02	1.12
p2	3548.69	0.99	1.68 0.06	565.96	0.99	0.46 0.12	906.77	1.23	955.25	641.45	1.28	1168.17	445.52	1.28	1305.14	1.15
TILE_40	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	GM
p0	3583.16	1.00	1.18 0.03	565.39	0.99	0.35 0.02	905.33	1.23	959.80	642.92	1.28	1145.87	469.43	1.35	1281.18	1.16
p1	3564.26	0.99	1.14 0.03	561.34	0.98	0.40 0.02	916.60	1.25	921.33	625.42	1.25	1131.02	428.38	1.24	1302.18	1.13
p2	3550.00	0.99	1.10 0.02	556.45	0.97	0.45 0.02	900.90	1.23	982.63	639.17	1.28	1164.57	445.77	1.29	1314.99	1.14
TILE_41	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	GM
p0	3573.67	0.99	1.50 0.07	558.84	0.98	0.33 0.06	890.92	1.21	1006.62	632.65	1.26	1200.24	460.35	1.33	1343.50	1.15
p1	3557.15	0.99	1.57 0.07	556.53	0.97	0.48 0.08	899.50	1.22	1002.95	604.23	1.21	1239.52	411.15	1.19	1416.38	1.11
p2	3543.21	0.98	1.44 0.04	556.38	0.97	0.46 0.11	894.58	1.22	1010.32	630.60	1.26	1211.59	440.68	1.27	1347.97	1.13
TILE_42	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	GM
p0	3572.25	0.99	1.19 0.03	569.88	1.00	0.69 0.18	899.02	1.22	984.19	642.75	1.28	1159.29	465.73	1.34	1308.56	1.16
p1	3562.86	0.99	1.16 0.02	565.26	0.99	0.37 0.02	921.00	1.25	906.48	636.62	1.27	1097.03	434.38	1.25	1265.13	1.14
p2	3548.83	0.99	1.01 0.01	561.17	0.98	0.48 0.14	907.60	1.24	957.96	643.45	1.29	1152.91	451.12	1.30	1281.49	1.15
TILE_43	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(nRT MaxPctF)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	Actual	Ratio	QoS(ms)	GM

p0	3575.23	0.99	1.38 0.05	571.96	1.00	0.63 0.07	887.35	1.21	1027.15	627.67	1.25	1221.78	459.57	1.33	1360.51	1.15
p1	3560.41	0.99	1.37 0.03	567.06	0.99	0.49 0.08	900.65	1.23	987.29	615.23	1.23	1200.62	416.82	1.20	1386.70	1.12
p2	3546.85	0.99	1.37 0.03	562.52	0.98	0.36 0.04	895.95	1.22	1006.36	632.33	1.26	1205.02	439.75	1.27	1348.94	1.14
p0_score:	49.91															
p1_score:	49.99															
p2_score:	49.59															
Infrastructure_Operations_Scores:								vMotion	SVMotion	XVMotion	Deploy					
Completed_Ops_PerHour								27.50	27.00	22.00	11.50					
Avg_Seconds_To_Complete								9.96	77.49	95.41	280.50					
Failures								0.00	0.00	0.00	0.00					
Ratio								1.06	1.50	1.22	1.44					
Number_Of_Threads								1	1	1	1					
Summary								Run_Is_Compliant				Turbo_Setting:0				
								Number_Of_Compliance_Issues(0)*				Median_Phase(p0)				
Unreviewed_VMmark3_Applications_Score								49.91								
Unreviewed_VMmark3_Infrastructure_Score								1.29								
Unreviewed_VMmark3_Score								40.19								

Configuration

Virtualization Software	
Hypervisor Vendor, Product, Version, and Build / Availability Date (MM-DD-YYYY)	VMware ESXi 8.0 GA, Build 20513097 / 10-11-2022
Datacenter Management Software Vendor, Product, Version, and Build / Availability Date (MM-DD-YYYY)	VMware vCenter Server 8.0 GA, Build 20519528 / 10-11-2022
Supplemental Software	None
Servers	
Number of Servers in System Under Test (all subsequent fields in this section are per server)	2
Server Manufacturer and Model	HPE ProLiant DL385 Gen11
Processor Vendor and Model	AMD EPYC 9654
Processor Speed (GHz) / Turbo Boost Speed (GHz)	2.4 / 3.7
Total Sockets/Total Cores/Total Threads	2 Socket / 192 Cores / 384 Threads
Primary CPU Cache	32 KB I + 32 KB D on chip per core
Secondary CPU Cache	1 MB I+D on chip per core
Other CPU Cache	384 MB I+D on chip per chip, 32MB shared / 8 cores

BIOS Version	A55 v1.10 (10/31/2022)
Memory Size (in GB, Number of DIMMs)	6144, 24
Memory Type and Speed	256 GB 2Rx4 DDR5-4800 MHz RDIMM
Disk Subsystem Type	FC SAN
Number of Disk Controllers	1
Disk Controller Vendors and Models	HPE NS204i-u Boot Controller
Total Number of Physical Disks for Hypervisor	2
Disk Vendors, Models, Capacities, and Speeds	HPE 480 GB NVMe M.2 SSD
Number of Host Bus Adapters	1
Host Bus Adapter Vendors and Models	Emulex LPE35002-M2 32Gb 2p FC HBA
Number of Network Controllers	1
Network Controller Vendors and Models	1 x Mellanox ConnectX-5 VPI (MCX556A-ECAT) 100Gb/s 2-port Ethernet Adapter
Other Hardware	None
Other Software	None
Hardware Availability Date (MM-DD-YYYY)	02-07-2023
BIOS Availability Date (MM-DD-YYYY)	02-07-2023
Software Availability Date (MM-DD-YYYY)	02-07-2023
Network	
Network Switch Vendors and Models	Mellanox MSN2410 56-port Switch
Network Speed	SUT hosts: 2 x 100 Gb/s for Management, vMotion, and VMs Client hosts: 2 x 25 Gb/s for Client VMs
Primary Storage	
Storage Category	FC SAN
Storage Vendors, Models, and Firmware Versions	HPE Alletra 9060, OS 9.5.3
Storage Configuration Summary	HPE Alletra 9060 <ul style="list-style-type: none"> • 2 Controller nodes (256GB Memory per controller node) • 1 Drive Enclosure • 24 x HPE Alletra 9060 7.68TB NVMe Disks
Datacenter Management Server	
System Model	HPE ProLiant DL365 Gen10 Plus
Processor Vendor and Model	AMD EPYC 7543
Processor Speed (GHz)	2.8
Total Sockets/Total Cores/Total Threads	2 Sockets / 64 Cores / 128 Threads
Memory Size (in GB, Number of DIMMs)	256, 8
Network Controller(s) Vendors and Models	1 x Mellanox MCX512F-ACHT Ethernet 10/25Gb 2-port SFP28 Adapter for HPE
Operating System, Version, Bitness, and Service Pack	VMware ESXi 7.0 U2A, Build 17867351
Virtual Center VM Number of vCPUs	8
Virtual Center VM Virtual Memory (in GB)	28

Virtual Center VM Operating System, Version, Bitness, and Service Pack	VMware vCenter Server 8.0 GA, Build 20519528
Other Hardware	None
Other Software	None

Clients

Total Number of Virtual Clients / Virtual Client Hosts	45 / 2
System Model(s)	HPE ProLiant DL385 Gen11
Processor Vendor(s) and Model(s)	AMD EPYC 9654
Processor Speed(s) (GHz)	2.4
Total Sockets/Total Cores/Total Threads	4 Sockets / 384 Cores / 768 Threads
Memory per Virtual Client Host	1.5 TB
Network Controller(s) Vendors and Models	1 x Mellanox ConnectX-5 EN (MCX512A-ACAT) Ethernet 10/25Gb 2-port SFP28 Adapter
Virtual Client Networking Notes	1 x vmnic on standard vSwitch for management, vMotion, and workload (25 Gb/s) 1 x vmnic on standard vSwitch for iSCSI storage for Client VMs (25 Gb/s)
Virtual Client Storage Notes	All Client VMs stored on shared iSCSI LUN on HPE Alletra 9060
Other Hardware	Details in Client Notes
Other Software	VMware ESXi 8.0 GA, Build 20513097

Security Mitigations

Vulnerability	CVE	Exploit Name	Public Vulnerability Name	Mitigated		
				Server Firmware	ESXi	Guest OS
Spectre	2017-5753	Variant 1	Bounds Check Bypass	N/A	Not Vulnerable	Not Vulnerable
Spectre	2017-5715	Variant 2	Branch Target Injection	Not Vulnerable	Not Vulnerable	Not Vulnerable
Meltdown	2017-5754	Variant 3	Rogue Data Cache Load	N/A	Not Vulnerable	Not Vulnerable
Spectre-NG	2018-3640	Variant 3a	Rogue System Register Read	Not Vulnerable	N/A	N/A
Spectre-NG	2018-3639	Variant 4	Speculative Store Bypass	N/A	Not Vulnerable	Not Vulnerable
Foreshadow	2018-3615	Variant 5	L1 Terminal Fault - SGX	N/A	N/A	N/A
Foreshadow-NG	2018-3620	Variant 5	L1 Terminal Fault - OS	N/A	N/A	Not Vulnerable
Foreshadow-NG	2018-3646	Variant 5	L1 Terminal Fault - VMM	N/A	Not Vulnerable	N/A

Notes for Workload

Virtualization Software Notes

- Cluster DRS Automation Level set to Fully Automated
- vSphere DRS Migration Threshold level set to 2
- Logical CPU layout changed for all multi-CPU workload VMs to 1 socket with multiple cores (default single core per socket)
- Logging was disabled for all VMs (default enabled)
- All ElasticDB VMs had CPU shares set to High (default Normal)
- All ElasticLB VMs had CPU shares set to High (default Normal)
- All DS3WebA VMs had CPU shares set to High (default Normal)
- All Standby VMs had CPU shares set to Low (default Normal)
- All DS3DB VMs had CPU and memory shares set to High (default Normal)

- All memory reserved for all DS3DB and client VMs (default 0)
- sched.mem.pin set to TRUE for all DS3DB and client VMs (Default FALSE)
- sched.mem.lpage.enable1GPage set to TRUE for all DS3DB VMs (Default FALSE)
- DS3DB0 was configured to not use the third virtual disk before building tiles 1-43.
- CD and floppy devices were removed from all VMs except for PrimeClient, client, and template VMs (default installed)

Advanced Settings

- Cpu.CreditAgePeriod = 1000 (default 3000)
- Cpu.HTWholeCoreThreshold = 0 (default 800)
- Disk.IdleCredit = 64 (default 32)
- Disk.ReqCallThreshold = 1 (default 8)
- Mem.CtlMaxPercent = 0 (default 65)
- Mem.ShareScanGHz = 0 (default 4)
- Numa.LTermFairnessInterval = 0 (default 5)
- Numa.LocalityWeightActionAffinity = 0 (default 130)
- Numa.PageMigEnable = 0 (default 1)
- Numa.RebalancePeriod = 60000 (default 2000)
- Numa.SwapLoadEnable = 0 (default 1)
- Numa.SwapLocalityEnable = 0 (default 1)
- Power.CpuPolicy = High Performance (default Balanced)
- UserVars.HostClientCEIPOptIn = 2 (default 0)
- UserVars.SuppressShellWarning = 1 (default 0)

Server Notes

Server BIOS Settings

- HPE Workload Profile set to 'Virtualization Max Performance ' (default : General Power Efficient Compute)
 - After changing to 'Virtualization Max Performance ' which modifies other settings, changed to 'Custom' to unlock settings to allow for modifications.
- Thermal configuration set to Maximum CPU Cooling (default : Optimal Cooling)
- L2 Stream HW Prefetcher set to Disabled (default : Enabled)
- NUMA nodes Per Socket set to Auto (default: Auto)
- C-State Mode set to Disabled (default: C6)
- Maximum Memory Bus Frequency set to 4800 (default: Auto)

Networking Notes

vSwitch Configuration

- standard vSwitch: vSwitch0
 - Uplink: vmnic0 (100 Gb/s)
 - vmk0 for Management and vMotion
 - "VM Network" port group for Standby and Deploy VMs
 - MTU set to 9000 for the vSwitch, vmk0, and all uplinks
 - vmk1 for iSCSI traffic (unused)
- standard vSwitch: vSwitch1
 - Uplinks: vmnic1 (100 Gb/s)
 - "auction" port group for Weathervane Auction VMs
 - "ds3" port group for DS3 VMs
 - "elastic" port group for Weathervane Elastic VMs
 - MTU set to 9000 for the vSwitch and all uplinks

Storage Notes

HPE Alletra 9060

- HPE Alletra 6090 SAN Dual Controller Storage
- Physical Configuration:
 - 2 controllers each with 8 x 16 Gb FC ports
 - 24 x HPE Alletra 7.68 TB NVMe SFF SSDs
 - The HPE Alletra storage array is VAAI capable and enabled
- Software Configuration:
 - 2 x 16TB LUNs were configured to be used as source and destination LUNs for infrastructure operations
 - 1 x 16TB LUN contained all DS3WebA, Standby, and Deploy Template VMs
 - 1 x 16TB LUN was used exclusively for Storage vMotion, XvMotion, and Deploy VM operations
 - Deduplication was enabled on both LUNs
 - 44 x 1TB LUNs were used to hold all DS3DB, AuctionDB, and ElasticDB VMs for each Tile
 - Deduplication was disabled on all 44 x 1TB LUNs
 - 1 x 64TB LUN was configured for the remainder of the VMs
 - Deduplications was disabled on the 64TB LUN
 - All FC LUNs were configured with
 - Round Robin Path Policy (Default : Most Recently Used)
 - IO Operations Limit 8 (Default : 1000)

Datacenter Management Server Notes

VMware vCenter Server Appliance 8.0 GA, Build 20519528, was hosted on a HPE ProLiant DL365 Gen10 Plus system that was not part of the client or SUT clusters.

Operating System Notes

After ESXi Installation, SUT hosts used HPE customized driver depot from the companion offline depot bundle for the HPE customized ESXi 8.0 GA ISO for ProLiant Gen11 servers. This is a pre-released version, which will be publicly released and available for customers to access by November 30, 2022.

Software Notes

None

Client Notes

Client hosts used the same ROM version that was used on the SUT hosts.

VMware ESXi 8.0 GA was installed on an HPE NS204i-u Boot Controller with 2 x HPE 480 GB NVMe M.2 SSD

Advanced ESXi Settings:

- UserVars.HostClientCEIPOptIn = 2 (default 0)

The Client VMs were distributed across the client hosts as follows:

- Client Host 1: Client0, Client1, Client3, Client5, Client7, Client9, Client11, Client13, Client15, Client17, Client19, Client21, Client23, Client25, Client27, Client29, Client31, Client33, Client35, Client37, Client39, Client41, Client43
- Client Host 2: PrimeClient, Client2, Client4, Client6, Client8, Client10, Client12, Client14, Client16, Client18, Client20, Client22, Client24, Client26, Client28, Client30, Client32, Client34, Client36, Client38, Client40, Client42

Client hosts vSwitch configuration:

- vSwitch0 on vmnic0 for Management Network and VM Network portgroup
- vSwitch1 on vmnic1 for iSCSI storage for Client VMs
- Each port is connected to the switch at 25Gb/s
- MTU set to 9000 for the vSwitch, vmk0, and all uplinks

Client storage for VMs

- All client VMs were stored on a 16TB iSCSI LUN on the HPE Alletra 9060
 - Deduplication was enabled on the Client 16TB iSCSI LUN

Other Notes

VMmark3.properties file modifications:

- TileDelay was set to 5 (default 60)
- ErrorImmediate = true (default false)

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