

## Large Database Query - 64KiB with 1 I/O per stream

## Test Run Sequence - Ramp-Up Interval

TR16				TR17				TR18				TR19				TR20			
256 Streams				128 Streams				64 Streams				32 Streams				1 Stream			
Test Run Sequence Time	Data Rate, MB/sec	Data Rate / Stream, MB/sec	Response Time, ms	Test Run Sequence Time	Data Rate, MB/sec	Data Rate / Stream, MB/sec	Response Time, ms	Test Run Sequence Time	Data Rate, MB/sec	Data Rate / Stream, MB/sec	Response Time, ms	Test Run Sequence Time	Data Rate, MB/sec	Data Rate / Stream, MB/sec	Response Time, ms	Test Run Sequence Time	Data Rate, MB/sec	Data Rate / Stream, MB/sec	Response Time, ms
0:00:00	809.98	31.15	0.97	0:07:00	554.60	69.33	0.69	0:14:00	457.50	50.83	0.67	0:21:00	409.32	68.22	0.61	0:28:00	109.14	109.14	0.59
0:00:05	1,437.87	27.65	1.70	0:07:05	1,070.91	44.62	0.94	0:14:05	873.67	58.24	0.80	0:21:05	660.40	82.55	0.72	0:28:05	107.12	107.12	0.61
0:00:10	1,760.74	23.17	2.35	0:07:10	1,428.95	42.03	1.36	0:14:10	1,298.55	64.93	0.91	0:21:10	814.24	74.02	0.74	0:28:10	122.52	122.52	0.53
0:00:15	2,738.30	28.52	2.03	0:07:15	2,081.33	45.25	1.27	0:14:15	1,621.80	64.87	0.89	0:21:15	1,133.52	80.97	0.74	0:28:15	122.80	122.80	0.53
0:00:20	3,006.24	27.33	2.22	0:07:20	2,485.76	48.74	1.28	0:14:20	1,844.33	65.87	0.92	0:21:20	1,284.60	85.64	0.75	0:28:20	122.52	122.52	0.53
0:00:25	3,111.45	23.93	2.49	0:07:25	2,695.31	42.11	1.40	0:14:25	2,062.38	60.66	0.98	0:21:25	1,313.25	82.08	0.76	0:28:25	114.64	114.64	0.57
0:00:30	3,780.34	26.81	2.36	0:07:30	2,958.79	42.88	1.47	0:14:30	2,649.76	61.62	0.96	0:21:30	1,517.09	79.85	0.77	0:28:30	104.02	104.02	0.63
0:00:35	4,375.69	26.52	2.27	0:07:35	3,465.18	45.59	1.37	0:14:35	3,038.09	63.29	0.98	0:21:35	1,674.02	79.72	0.78	0:28:35	108.53	108.53	0.60
0:00:40	4,594.24	25.67	2.45	0:07:40	3,860.54	45.96	1.36	0:14:40	3,206.94	65.45	0.99	0:21:40	1,794.98	78.04	0.80	0:28:40	116.36	116.36	0.56
0:00:45	4,639.76	23.79	2.62	0:07:45	4,071.89	44.75	1.41	0:14:45	3,348.98	64.40	0.98	0:21:45	1,851.41	80.50	0.81	0:28:45	123.06	123.06	0.53
0:00:50	5,224.07	25.48	2.52	0:07:50	4,097.57	43.59	1.47	0:14:50	3,677.87	65.68	0.97	0:21:50	1,901.24	76.05	0.82	0:28:50	121.48	121.48	0.54
0:00:55	5,445.99	25.69	2.51	0:07:55	4,225.77	42.68	1.49	0:14:55	3,830.72	66.05	0.97	0:21:55	2,061.41	79.28	0.82	0:28:55	121.17	121.17	0.54
0:01:00	5,552.26	25.12	2.55	0:08:00	4,729.79	44.20	1.43	0:15:00	3,964.73	66.08	0.96	0:22:00	2,177.72	72.59	0.82	0:29:00	122.80	122.80	0.53
0:01:05	5,647.23	24.24	2.65	0:08:05	5,088.55	45.84	1.41	0:15:05	4,100.41	66.14	0.96	0:22:05	2,399.78	79.99	0.82	0:29:05	122.42	122.42	0.53
0:01:10	5,629.53	23.46	2.75	0:08:10	5,207.70	44.13	1.45	0:15:10	4,228.57	68.20	0.96	0:22:10	2,401.88	80.06	0.82	0:29:10	123.25	123.25	0.53
0:01:15	5,654.71	22.71	2.84	0:08:15	5,285.52	43.32	1.48	0:15:15	4,208.97	67.89	0.96	0:22:15	2,409.64	80.32	0.82	0:29:15	116.65	116.65	0.56
0:01:20	5,700.10	22.71	2.86	0:08:20	5,338.05	42.03	1.52	0:15:20	4,285.11	66.95	0.97	0:22:20	2,436.86	76.15	0.82	0:29:20	111.57	111.57	0.59
0:01:25	5,674.16	22.16	2.93	0:08:25	5,349.09	41.79	1.56	0:15:25	4,318.78	67.48	0.97	0:22:25	2,579.25	80.60	0.81	0:29:25	122.56	122.56	0.53
0:01:30	5,704.11	22.28	2.94	0:08:30	5,377.62	42.01	1.56	0:15:30	4,328.46	67.63	0.97	0:22:30	2,580.22	80.63	0.81	0:29:30	121.37	121.37	0.54
0:01:35	5,672.26	22.16	2.96	0:08:35	5,356.00	41.84	1.57	0:15:35	4,301.69	67.21	0.97	0:22:35	2,542.49	79.45	0.82	0:29:35	110.75	110.75	0.59
0:01:40	5,675.32	22.17	2.96	0:08:40	5,344.54	41.75	1.57	0:15:40	4,316.34	67.44	0.97	0:22:40	2,502.74	78.21	0.84	0:29:40	111.84	111.84	0.59
0:01:45	5,669.33	22.15	2.96	0:08:45	5,350.58	41.80	1.57	0:15:45	4,297.59	67.15	0.98	0:22:45	2,500.40	78.14	0.84	0:29:45	120.75	120.75	0.54
0:01:50	5,664.69	22.13	2.96	0:08:50	5,374.22	41.99	1.56	0:15:50	4,322.01	67.53	0.97	0:22:50	2,498.73	78.09	0.84	0:29:50	123.04	123.04	0.53
0:01:55	5,671.75	22.16	2.96	0:08:55	5,360.73	41.88	1.56	0:15:55	4,292.38	67.07	0.98	0:22:55	2,518.55	78.70	0.83	0:29:55	121.51	121.51	0.54
0:02:00	5,680.49	22.19	2.95	0:09:00	5,384.29	42.06	1.56	0:16:00	4,306.78	67.29	0.97	0:23:00	2,503.51	78.23	0.84	0:30:00	123.91	123.91	0.53
0:02:05	5,686.69	22.21	2.95	0:09:05	5,361.44	41.89	1.56	0:16:05	4,291.94	67.06	0.98	0:23:05	2,494.76	77.96	0.84	0:30:05	123.36	123.36	0.53
0:02:10	5,665.83	22.13	2.96	0:09:10	5,374.28	41.99	1.56	0:16:10	4,309.14	67.33	0.97	0:23:10	2,501.22	78.16	0.84	0:30:10	122.37	122.37	0.53
0:02:15	5,670.76	22.15	2.96	0:09:15	5,383.40	42.06	1.56	0:16:15	4,307.53	67.31	0.97	0:23:15	2,501.26	78.16	0.84	0:30:15	123.29	123.29	0.53
0:02:20	5,688.89	22.22	2.95	0:09:20	5,357.11	41.85	1.57	0:16:20	4,322.74	67.54	0.97	0:23:20	2,510.98	78.47	0.83	0:30:20	120.64	120.64	0.54
0:02:25	5,688.24	22.22	2.95	0:09:25	5,347.57	41.78	1.57	0:16:25	4,289.39	67.02	0.98	0:23:25	2,502.48	78.20	0.84	0:30:25	122.01	122.01	0.54
0:02:30	5,677.23	22.18	2.95	0:09:30	5,377.16	42.01	1.56	0:16:30	4,290.55	67.04	0.98	0:23:30	2,492.15	77.88	0.84	0:30:30	123.04	123.04	0.53
0:02:35	5,666.82	22.14	2.96	0:09:35	5,384.25	42.06	1.56	0:16:35	4,286.09	66.97	0.98	0:23:35	2,492.83	77.90	0.84	0:30:35	105.17	105.17	0.62
0:02:40	5,677.70	22.18	2.95	0:09:40	5,360.79	41.88	1.56	0:16:40	4,273.57	66.77	0.98	0:23:40	2,499.31	78.10	0.84	0:30:40	121.79	121.79	0.54
0:02:45	5,707.55	22.30	2.94	0:09:45	5,370.41	41.96	1.56	0:16:45	4,291.20	67.05	0.98	0:23:45	2,504.20	78.26	0.84	0:30:45	106.97	106.97	0.61
0:02:50	5,686.96	22.21	2.95	0:09:50	5,368.99	41.95	1.56	0:16:50	4,332.38	67.69	0.97	0:23:50	2,499.21	78.10	0.84	0:30:50	119.23	119.23	0.55
0:02:55	5,692.60	22.24	2.95	0:09:55	5,363.26	41.90	1.56	0:16:55	4,297.89	67.15	0.98	0:23:55	2,504.65	78.27	0.84	0:30:55	106.59	106.59	0.61

## Large Database Query - 64KiB with 1 I/O per stream

Test Run Sequence = Measurement Interval

TR16				TR17				TR18				TR19				TR20			
Test Run Sequence Time	256 Streams			Test Run Sequence Time	128 Streams			Test Run Sequence Time	64 Streams			Test Run Sequence Time	32 Streams			Test Run Sequence Time	1 Stream		
	Data Rate, MB/sec	Data Rate / Stream, MB/sec	Response Time, ms		Data Rate, MB/sec	Data Rate / Stream, MB/sec	Response Time, ms		Data Rate, MB/sec	Data Rate / Stream, MB/sec	Response Time, ms		Data Rate, MB/sec	Data Rate / Stream, MB/sec	Response Time, ms		Data Rate, MB/sec	Data Rate / Stream, MB/sec	Response Time, ms
0:03:00	5,689.21	22.22	2.95	0:10:00	5,351.56	41.81	1.57	0:17:00	4,272.76	66.76	0.98	0:24:00	2,492.86	77.90	0.84	0:31:00	122.78	122.78	0.53
0:03:05	5,678.20	22.18	2.95	0:10:05	5,375.19	41.99	1.56	0:17:05	4,289.91	67.03	0.98	0:24:05	2,559.14	79.97	0.82	0:31:05	122.99	122.99	0.53
0:03:10	5,670.16	22.15	2.96	0:10:10	5,353.00	41.82	1.57	0:17:10	4,302.19	67.22	0.97	0:24:10	2,580.60	80.64	0.81	0:31:10	121.69	121.69	0.54
0:03:15	5,676.37	22.17	2.95	0:10:15	5,373.95	41.98	1.56	0:17:15	4,307.43	67.30	0.97	0:24:15	2,584.18	80.76	0.81	0:31:15	121.89	121.89	0.54
0:03:20	5,718.15	22.34	2.93	0:10:20	5,353.04	41.82	1.57	0:17:20	4,316.51	67.45	0.97	0:24:20	2,543.51	79.48	0.82	0:31:20	112.08	112.08	0.58
0:03:25	5,696.09	22.25	2.94	0:10:25	5,353.09	41.82	1.57	0:17:25	4,309.24	67.33	0.97	0:24:25	2,493.30	77.92	0.84	0:31:25	117.73	117.73	0.56
0:03:30	5,692.21	22.24	2.95	0:10:30	5,347.23	41.78	1.57	0:17:30	4,280.30	66.88	0.98	0:24:30	2,536.60	79.27	0.83	0:31:30	121.68	121.68	0.54
0:03:35	5,679.21	22.18	2.95	0:10:35	5,363.28	41.90	1.56	0:17:35	4,284.31	66.94	0.98	0:24:35	2,508.07	78.38	0.84	0:31:35	121.05	121.05	0.54
0:03:40	5,647.61	22.06	2.97	0:10:40	5,371.49	41.96	1.56	0:17:40	4,300.86	67.20	0.97	0:24:40	2,568.63	80.27	0.82	0:31:40	107.06	107.06	0.61
0:03:45	5,681.97	22.20	2.95	0:10:45	5,358.68	41.86	1.57	0:17:45	4,275.72	66.81	0.98	0:24:45	2,520.32	78.76	0.83	0:31:45	121.40	121.40	0.54
0:03:50	5,684.40	22.20	2.95	0:10:50	5,340.86	41.73	1.57	0:17:50	4,291.82	67.06	0.98	0:24:50	2,517.64	78.68	0.83	0:31:50	119.55	119.55	0.55
0:03:55	5,663.95	22.12	2.96	0:10:55	5,356.58	41.85	1.57	0:17:55	4,300.83	67.20	0.97	0:24:55	2,583.16	80.72	0.81	0:31:55	111.55	111.55	0.59
0:04:00	5,682.08	22.20	2.95	0:11:00	5,355.68	41.84	1.57	0:18:00	4,269.12	66.70	0.98	0:25:00	2,547.00	79.59	0.82	0:32:00	117.84	117.84	0.56
0:04:05	5,677.77	22.18	2.95	0:11:05	5,349.57	41.79	1.57	0:18:05	4,293.34	67.08	0.98	0:25:05	2,504.34	78.26	0.84	0:32:05	107.16	107.16	0.61
0:04:10	5,653.47	22.08	2.97	0:11:10	5,377.09	42.01	1.56	0:18:10	4,309.92	67.34	0.97	0:25:10	2,513.47	78.55	0.83	0:32:10	107.00	107.00	0.61
0:04:15	5,680.50	22.19	2.95	0:11:15	5,377.50	42.01	1.56	0:18:15	4,292.91	67.08	0.98	0:25:15	2,521.23	78.79	0.83	0:32:15	114.57	114.57	0.57
0:04:20	5,697.86	22.26	2.94	0:11:20	5,361.91	41.89	1.56	0:18:20	4,300.95	67.20	0.97	0:25:20	2,499.79	78.12	0.84	0:32:20	123.04	123.04	0.53
0:04:25	5,669.95	22.15	2.96	0:11:25	5,352.34	41.82	1.57	0:18:25	4,290.29	67.04	0.98	0:25:25	2,498.16	78.07	0.84	0:32:25	115.33	115.33	0.57
0:04:30	5,671.43	22.15	2.96	0:11:30	5,378.62	42.02	1.56	0:18:30	4,317.42	67.46	0.97	0:25:30	2,502.36	78.20	0.84	0:32:30	115.33	115.33	0.57
0:04:35	5,662.74	22.12	2.96	0:11:35	5,387.94	42.09	1.56	0:18:35	4,294.04	67.09	0.98	0:25:35	2,512.01	78.50	0.83	0:32:35	122.79	122.79	0.53
0:04:40	5,665.24	22.13	2.96	0:11:40	5,368.14	41.94	1.56	0:18:40	4,300.93	67.20	0.97	0:25:40	2,504.53	78.27	0.84	0:32:40	122.47	122.47	0.53
0:04:45	5,669.70	22.15	2.96	0:11:45	5,386.26	42.08	1.56	0:18:45	4,305.09	67.27	0.97	0:25:45	2,505.58	78.30	0.84	0:32:45	121.03	121.03	0.54
0:04:50	5,682.14	22.20	2.95	0:11:50	5,361.26	41.88	1.56	0:18:50	4,300.68	67.20	0.97	0:25:50	2,512.61	78.52	0.83	0:32:50	123.22	123.22	0.53
0:04:55	5,688.24	22.22	2.95	0:11:55	5,371.97	41.97	1.56	0:18:55	4,313.33	67.40	0.97	0:25:55	2,500.39	78.14	0.84	0:32:55	120.81	120.81	0.54
0:05:00	5,666.96	22.14	2.96	0:12:00	5,347.46	41.78	1.57	0:19:00	4,286.18	66.97	0.98	0:26:00	2,527.24	78.98	0.83	0:33:00	117.86	117.86	0.56
0:05:05	5,682.75	22.20	2.95	0:12:05	5,398.28	42.17	1.55	0:19:05	4,292.08	67.06	0.98	0:26:05	2,505.93	78.31	0.84	0:33:05	121.23	121.23	0.54
0:05:10	5,672.43	22.16	2.96	0:12:10	5,365.98	41.92	1.56	0:19:10	4,307.53	67.31	0.97	0:26:10	2,514.22	78.57	0.83	0:33:10	115.39	115.39	0.57
0:05:15	5,681.08	22.19	2.95	0:12:15	5,336.95	41.69	1.57	0:19:15	4,307.57	67.31	0.97	0:26:15	2,502.49	78.20	0.84	0:33:15	113.52	113.52	0.58
0:05:20	5,685.48	22.21	2.95	0:12:20	5,379.83	42.03	1.56	0:19:20	4,310.49	67.35	0.97	0:26:20	2,493.62	77.93	0.84	0:33:20	114.66	114.66	0.57
0:05:25	5,709.10	22.30	2.94	0:12:25	5,342.61	41.74	1.57	0:19:25	4,294.45	67.10	0.98	0:26:25	2,502.94	78.22	0.84	0:33:25	112.76	112.76	0.58
0:05:30	5,685.02	22.21	2.95	0:12:30	5,366.97	41.93	1.56	0:19:30	4,291.11	67.05	0.98	0:26:30	2,535.67	79.24	0.83	0:33:30	117.02	117.02	0.56
0:05:35	5,670.12	22.15	2.96	0:12:35	5,381.41	42.04	1.56	0:19:35	4,290.09	67.03	0.98	0:26:35	2,510.46	78.45	0.83	0:33:35	123.63	123.63	0.53
0:05:40	5,683.76	22.20	2.95	0:12:40	5,366.05	41.92	1.56	0:19:40	4,318.01	67.47	0.97	0:26:40	2,495.31	77.98	0.84	0:33:40	123.51	123.51	0.53
0:05:45	5,693.99	22.24	2.95	0:12:45	5,374.22	41.99	1.56	0:19:45	4,290.25	67.04	0.98	0:26:45	2,502.91	78.22	0.84	0:33:45	122.86	122.86	0.53
0:05:50	5,699.84	22.26	2.94	0:12:50	5,367.38	41.93	1.56	0:19:50	4,320.68	67.51	0.97	0:26:50	2,495.95	78.00	0.84	0:33:50	117.95	117.95	0.55
0:05:55	5,679.56	22.19	2.95	0:12:55	5,348.89	41.79	1.57	0:19:55	4,305.30	67.27	0.97	0:26:55	2,496.61	78.02	0.84	0:33:55	108.11	108.11	0.61
0:06:00	5,688.00	22.22	2.95	0:13:00	5,349.44	41.79	1.57	0:20:00	4,289.71	67.03	0.98	0:27:00	2,552.13	79.75	0.82	0:34:00	99.72	99.72	0.66

**Large Database Query - 64KiB with 1 I/O per stream**

Test Run Sequence = Run-Out &amp; Ramp-Down Intervals

TR16				TR17				TR18				TR19				TR20			
256 Streams				128 Streams				64 Streams				32 Streams				1 Stream			
Test Run Sequence Time	Data Rate, MB/sec	Data Rate / Stream, MB/sec	Response Time, ms	Test Run Sequence Time	Data Rate, MB/sec	Data Rate / Stream, MB/sec	Response Time, ms	Test Run Sequence Time	Data Rate, MB/sec	Data Rate / Stream, MB/sec	Response Time, ms	Test Run Sequence Time	Data Rate, MB/sec	Data Rate / Stream, MB/sec	Response Time, ms	Test Run Sequence Time	Data Rate, MB/sec	Data Rate / Stream, MB/sec	Response Time, ms
0:06:05	5,692.03	22.23	2.95	0:13:05	5,354.09	41.83	1.57	0:20:05	4,306.65	67.29	0.97	0:27:05	2,534.46	79.20	0.83	0:34:05	107.48	107.48	0.61
0:06:10	5,689.22	22.22	2.95	0:13:10	5,339.95	41.72	1.57	0:20:10	4,304.19	67.25	0.97	0:27:10	2,503.41	78.23	0.84	0:34:10	123.38	123.38	0.53
0:06:15	5,651.30	22.08	2.97	0:13:15	5,359.68	41.87	1.56	0:20:15	4,291.71	67.06	0.98	0:27:15	2,502.27	78.20	0.84	0:34:15	114.44	114.44	0.57
0:06:20	5,680.36	22.19	2.95	0:13:20	5,379.68	42.03	1.56	0:20:20	4,300.25	67.19	0.97	0:27:20	2,498.46	78.08	0.84	0:34:20	109.53	109.53	0.60
0:06:25	5,680.73	22.19	2.95	0:13:25	5,377.60	42.01	1.56	0:20:25	4,311.47	67.37	0.97	0:27:25	2,496.57	78.02	0.84	0:34:25	123.78	123.78	0.53
0:06:30	5,681.43	22.19	2.95	0:13:30	5,353.30	41.82	1.57	0:20:30	4,305.96	67.28	0.97	0:27:30	2,506.89	78.34	0.84	0:34:30	112.04	112.04	0.58
0:06:35	5,686.00	22.21	2.95	0:13:35	5,366.47	41.93	1.56	0:20:35	4,310.42	67.35	0.97	0:27:35	2,509.78	78.43	0.84	0:34:35	116.45	116.45	0.56
0:06:40	5,707.85	22.30	2.94	0:13:40	5,338.92	41.71	1.57	0:20:40	4,293.81	67.09	0.98	0:27:40	2,573.35	80.42	0.81	0:34:40	124.40	124.40	0.53
0:06:45	70.74	0.00	2.92	0:13:45	64.24	0.00	1.56	0:20:45	49.17	0.00	0.96	0:27:45	27.73	0.00	0.84	0:34:45	1.45	0.00	0.52
0:06:50	0.00	0.00	0.00	0:13:50	0.00	0.00	0.00	0:20:50	0.00	0.00	0.00	0:27:50	0.00	0.00	0.00	0:34:50	0.00	0.00	0.00
0:06:55	0.00	0.00	0.00	0:13:55	0.00	0.00	0.00	0:20:55	0.00	0.00	0.00	0:27:55	0.00	0.00	0.00	0:34:55	0.00	0.00	0.00