- tRCD tRP tRAS tCMD tWR tRFC tRRD_L tRRD_S tWTR_L tWTR_S tRTP tFAW tCWL tREFI tCKE tRDRD tRDWR tWRRD tWRWR RTL/IO 18 22 22 42 2 26 789 12 9 18 12 12 55 18 17181 8 8/4/9/9 16/16/16/16 42/36/9/9 8/4/9/9 72/14 18 22 22 42 2 26 789 11 9 18 12 12 48 18 17181 8 8/4/9/9 16/16/16/16 42/36/9/9 8/4/9/9 72/14	0 2 8 15 50 100 200 300 400 500 700 1000 1300 1700 2500 3500 5000 9000 20000 578.74 581.18 578.31 577.56 583.67 583 579.17 575.13 568.87 560.71 77.34 56.04 51.58 48.74 46.14 44.66 43.58 42.39 41.45 260	0 2 8 15 50 100 200 300 400 500 700 1000 1300 1700 2500 3500 5000 9000 20000
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8 22 22 42 2 26 789 11 9 18 12 12 44 18 17181 8 8/4/9/9 16/16/16/16 42/36/9/9 8/4/9/9 72/14	511.26 512.51 510.88 509.1 515.04 514.12 510.32 506.33 499.52 488.9 68.47 55.11 50.88 48.03 45.49 43.99 42.89 41.72 40.76 30	499.2 30498.1 30497.1 30478.8 30517.5 30551.1 30570.6 30625.1 30681.5 30788.1 32291.8 23410.5 18506.1 14606.7 10489.3 7964.8 6063 4080.6 2718.4
8 22 22 42 2 26 789 10 9 18 12 12 44 18 17181 8 8/4/9/9 16/16/16/16 42/36/9/9 8/4/9/9 72/14 8 22 22 42 2 26 789 10 9 18 12 12 44 18 17181 8 8/4/9/9 16/16/16/16 42/36/9/9 8/4/9/9 72/14	479.39 478.02 476.28 476.44 482.03 481.02 477.31 472.64 400.12 451.45 67.64 55.18 50.67 48.04 40.5 44.02 42.93 41.76 40.62 32 477.31 477.08 474.97 474.14 481.02 480.3 476.39 472.03 464.2 451.03 67.54 55.08 50.79 48.02 45.46 43.96 42.89 41.7 40.78 32	782.1 32760.6 32773.9 32761.2 32794.5 32829.9 32854.9 32919.3 32983.1 33146.9 32297.5 23402.8 18515.4 14604 10488.3 7965.3 6061.9 4081.6 2717.8
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8 22 22 42 2 26 789 9 9 18 12 12 40 18 17181 8 8/4/9/9 16/16/16 42/36/9/9 8/4/9/9 72/14 8 22 22 42 2 26 789 9 9 18 12 12 36 18 17181 8 8/4/9/9 16/16/16/16 42/36/9/9 8/4/9/9 72/14	452.15 451.78 451.87 450.63 455.83 455.58 451.94 447.25 440.06 413.02 67.07 54.87 50.65 47.84 45.35 43.85 42.8 41.62 40.68 34 434.25 435.74 433.79 434.69 438.35 437.68 434.58 430.02 421.95 392.44 67.14 55.13 50.77 48 45.45 43.98 42.9 41.75 40.81 36	710.3 34707.4 34712.5 34706.7 34708 34772.6 34819.7 34873.7 34940.5 35140.9 32362.6 23460.1 18549.9 14633.8 10510 7982 6074.8 4089.1 2723.7 318.2 36316.3 36335.7 36317.3 36345.7 36366.4 36420.4 3642.4 36538 36784.3 32282.5 23376.6 18500.7 14589.6 10480.6 7959 6057.4 4076.8 2715.4
8 22 22 42 2 26 789 9 8 18 12 12 36 18 17181 8 8/4/9/9 16/16/16/16 42/36/9/9 8/4/9/9 72/14	422.28 422.63 421.59 421.27 425.44 424.59 421.2 416.97 408.51 367.37 66.18 55.05 50.89 48.21 45.8 44.41 43.38 42.28 41.36 370	697.9 37699.9 37707.4 37693.1 37718 37748.6 37799.6 37853.5 37961.9 38363.6 32326 23415.9 18513.4 14599 10479.3 7951.2 6046.1 4060.3 2695.8
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8 22 22 42 2 26 789 8 4 18 12 12 32 18 17181 8 8/4/9/9 16/16/16 42/36/9/9 8/4/9/9 72/14	403.71 404.31 403.84 401.91 406.55 405.73 402.89 398.48 390.12 260.3 66.14 54.83 50.47 47.77 45.32 43.89 42.86 41.74 40.84 399	947.7 39937.8 39945.1 39929.3 39953.1 39976.8 40024 40077.6 40167.5 41125.5 32245.9 23363.8 18487.9 14585 10474.6 7955.7 6054.2 4075.2 2713.2
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8 22 22 42 2 24 789 4 4 18 12 11 16 18 17181 8 8/4/9/9 16/16/16/16 42/36/9/9 8/4/9/9 72/14	396.42 395.77 394.55 394.02 398.79 398.01 395.04 390.13 381.71 209.79 65.91 54.48 50.25 47.51 45.15 43.73 42.74 41.63 40.75 41.	062.3 41055.3 41057.6 41057.6 41076.9 41092.1 41123 41151.5 41215.2 42137.8 32309.5 23421.7 18528.3 14615.7 10498.7 7973.7 6067 4084 2718.8
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8 22 22 42 2 20 789 4 4 18 12 10 16 18 17181 8 8/4/9/9 16/16/16/16 42/36/9/9 8/4/9/9 72/14	393.48 393.07 392.36 391.27 395.93 395.31 392.23 387.81 378.81 174.06 65.16 54.35 50.3 47.74 45.55 44.26 43.33 42.27 41.43 41.	296.6 41287.5 41296.3 41286.5 41303.5 41321.5 41357.5 41391.2 41460.9 42602.1 32280.6 23383.2 18492.4 14586.4 10468.3 7942.6 6037.9 4055.6 2690.7
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8 22 22 42 2 18 789 4 4 18 12 8 16 18 17181 8 8/4/9/9 16/16/16/16 42/36/9/9 8/4/9/9 72/14		41425 41420.8 41430.6 41425.1 41431.8 41453.9 41482 41534.7 41611.4 42767.3 32314.8 23420.4 18522.9 14615.2 10498 7970.8 6066.6 4082.1 2717.1
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8 22 22 42 2 14 789 4 4 18 12 7 16 18 17181 8 8/4/9/9 16/16/16/16 42/36/9/9 8/4/9/9 72/14	390.62 390.53 388.08 388.8 392.47 391.68 389.01 384.25 375.3 147.38 64.12 53.7 49.8 47.4 45.26 44.04 43.15 42.16 41.35 410	655.6 41648.8 41664.7 41652.5 41655.1 41671.2 41716.3 41746.1 41833.8 43081.4 32329.3 23430.4 18523.7 14608.8 10487 7956.4 6049.3 4062 2695.1
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8 22 22 42 2 12 340 4 4 18 12 6 16 18 17181 8 8/4/9/9 16/16/16/16 42/36/9/9 8/4/9/9 72/14		255.6 43250.8 43257 43254.2 43253.8 43273.3 43313.8 43357.9 43443.6 43839 32434.7 23516.5 18603 14684.5 10556.4 8025 6118.4 4131.1 2764.7
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7 22 22 42 2 12 300 4 4 18 12 6 16 18 17181 8 8/4/9/9 16/16/16 42/36/9/9 8/4/9/9 70/14	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	423.3 43423.4 43426.4 43430.9 43451.6 43485.4 43527.4 43622.3 43941.9 32516.7 23574.6 18655 14729.8 10592.3 8059.7 6148 4158.8 2789.7
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16						16	16	16	16	16	16	16	16	16	16	16	16	16
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1543					1543	1543	5000	1543	4362	7181	7181	7181	7181	7181	7181	7181	7181	7181
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/4/9/9						/4/9/9	/4/9/9	/4/9/9	/4/9/9	/4/9/9	/4/9/9	/4/9/9	/4/9/9	/4/9/9	/4/9/9	/4/9/9	/4/9/9	/4/9/9
16/16						16/16	16/16	16/16	16/16	16/16	16/16	16/16	15/15	16/16	16/16	16/16	16/16	16/16
5/16/16						6/16/16	6/16/16	6/16/16	6/16/16	6/16/16	6/16/16	6/16/16	5/15/15	6/16/16	6/16/16	6/16/16	6/16/16	6/16/16
28/24						28/24	28/24	28/24	28/24	28/24	28/24	28/24	28/24	28/24	28/24	28/24	29/24	30/24
1/9/9						1/9/9	1/9/9	1/9/9	1/9/9	1/9/9	1/9/9	1/8/8	1/9/9	1/9/9	1/9/9	1/9/9	1/9/9	1/9//9
6/4/9/9	6/4/9/9	6/4/9/9		6/4/9/9	6/4/9/9	6/4/9/9	6/4/9/9	6/4/9/9	6/4/9/9	6/4/9/9	8/4/9/9	6/4/9/9	6/4/9/9	6/4/9/9	7/4/9/9	8/4/9/9	8/4/9/9	8/4/9/9
62/8		64/10	00/11	65/11	66/12	67/13	68/14	68/14	68/14	68/14	68/14	68/14	68/14	68/14	68/14	68/14	68/14	68/14
326		-	321	227	327	327	32	327	328	332	335	333	33	33	333	334	335	334
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327.07			321.25	227.35	326 98	327.26	326.84	326.44	328.31	331.25	334.41	330.62	330.8	330.49	332.35	335.1	334.75	334.9
325			325	325	3 325	327	326	326	328	330	333	321	329	330	332	332	5 3	334
o.13 3			0.00 3		13	.08 3	3.63	6.42	3.08).14 3	3.28 3	.65 3	.67 3).61 3	2.33 3	2.81 3	334 3	.21 3
328.87			320.07	220 07	329.4	329.89	329.65	329.5	331.32	333.91	337.34	324.64	333.08	333.52	335.95	336.62	336.94	337.25
7 32			328	7 220	1 328	329	329	328	330	1 333	336	324	332	332	33	336	4 336	33
8.1 3	7.88 3	3.62 3	3	40 2	75 3	.28 3	.18 3	.57 3	.55 3	3.56	3.69	.35 3	.47 3	.82 3	5.2 3	3.15	3.31	6.3 3
325.01	324.86	325.79	323.5	225.7	325 7	326.37	326.17	325.87	327.6	330.4	333.37	331.44	329.26	329.09	332.72	332.87	333.4	333.59
1 319	6 31	9 320	1 320	1 220	3 321	7 321	7 320	7 320	5 322	5 325	7 328	4 325	6 324	9 324	2 328	7 328	4 328	9 328
9.77	9.9 2	0.79 2	7.30 2	1.02 2	02 2	1.09 2	0.92	0.37 2	2.43 2	5.51 2	3.77	5.82 2	1.79 2	.71 2	3.11	3.32	3.91	3.54
285.1	285.21	288.49	207.43	207 4	287 40	288.4	287.3	287.18	289.26	296.69	302.2	298.06	293.35	295.52	301.89	303.47	303.97	303.32
1 56	1 56	9 57	3 5	2 5	6 5	5 5	3 57	8 58	6 58	9 6	2 6°	6 60	5 60	2 60	9 6 ⁻	<mark>7</mark> 6	3 62	2 6
5.34	6.61 4	7.22 4	7.34 4	7 24 4	7 58 4	7.98 4	7.97 4	3.11 4	8.81 4	60.3 4	1.79	0.51 4	0.17 4	0.11 4	1.33 4	1.63 4	2.01 4	62.1 4
44	4.39	4.86	5.15	5.00	5 36	5.86	6.09	6.09	6.37	6.68	47	6.84	6.79	6.68	6.95	6.93	7.05	7.11
39.24	39.8	10.22	10.01	10.70	10 78	41.23	41.61	41.52	41.91	41.96	42.13	42.2	42.15	42.05	42.13	12.07	12.11	12.16
37.32	37.87	38.36	30.03	20.5	38 01	39.38	39.72	39.69	40	40.06	40.14	40.31	40.25	40.12	40.22	40.1	40.11	40.19
36.0	36.7	37.2	37.4	27.4	37.7	38.1	38.5	38.5	38.8	38.8	38.9	39.1	39.0	38.9	39.0	38.8	38.8	38.9
08 34	71 35	21 35	4/ 3	47 3	72 36	19 36	55 37	52 37	88 37	85 37	94 37	13 37	07 3	99 3	02 37	87 37	88 37	91 37
1.73 3	5.41 3	.95	00.2 3	06.2.2	43 3	5.93	.34 3	7.32 3	7.68 3	7.67 3	7.72 3	'.94 3	37.9	37.8	'.84 3	7.64 3	'.67 3	7.69 3
3.95	4.68	35.2	5.45	E 45	5 68	36.2	6.61	6.56	6.96	6.93	6.96	7.24	7.17	7.09	7.11	6.91	6.91	6.93
33.37	34.11	34.66	34.9	24.0	35 11	35.64	36.05	36.03	36.42	36.4	36.43	36.7	36.64	36.57	36.57	36.35	36.36	36.37
32.7	33.4	34.0	34.2	24.2	34.4	35.0	35.4	35.	35.	35.7	35.	36.	36.0	35.9	35.9	35.7	35.7	35.7
32.	32.9	33.	33.	22.	7 33 (34.4	34.9	34.8	35.2	35.2	35.2	35.	35.	35.4	35.4	35.2	35.2	35.2
18 49	96 4	2 49	3 49	75 40	14 49	19 49	91 4	38 49	28 49	27 4	29 48	48	49	49	15 4	21 48	23 48	21 48
593.8	9657	557.5	332.4	222.4	337 5	537.5	9623	656.6	389.5	8961	517.5	374.1	144.2	057.3	8659	609.1	577.2	549.8
49598	49656	495	49030	40626	49633	49533	49624	4965	49385	48963	48518	4887	49148	49056	48660	48608	48579	48548
.1 49	.9 49	52 49	.5 49	E 40	8 40	.8	.6 49	.3	.2	.3 48	.5 48	.6 48	.1 49	.1 49	.7 48	.5	.1	.2 48
500.4	660.9	563.2		$\overline{}$	636.9	9538	628.8	9659	9392	962.4	521.6	880.5	153.4	061.4	668.2	8609	8582	552.9
49598	49656	495	.0000	49630	49637	49537	49623	49650	49380	48958	48521	48872	49145	49052	48664	48609	48576	48547
.4 49	5.8 49	64 49		\dashv	4 40	.2 49	3.8 49	.9 49	.8 49	3.4 48	.3	.4 48	.8 49	2.3 49	.5 48	0.1 48	6.6 48	'.3 48
o96.5	554.9	562.7	0.00.0	200.5	336 5	537.8	621.7	354.9	385.4	960.1	8518	369.4	149.6	058.1	657.1	608.4	575.1	545.8
49606	49666	49572	49044	40644	49646	49545	49635	49659	49400	48968	48524	48882	49159	49067	48665	48618	48583	48552
.2 49	_	.5 49	.7 49	7 40	9 49	.5 49	.7 49	.8 49	.5 49	.8 48	.8 48	.1 48	.9 49	.8 49	.1 48	.3 4	.1 48	.3 48
033.4	694.3	595.7	1.6	271.0	672 5	570.7	660.5	693.1	425.2	997.8	550.1	905.4	179.2	084.9	693.8	8640	613.7	584.3
49672		496	49700	40706	4970	49603	496	49716	49454	49032	48592	48936	49215	49126	48729	4868	48644	48619
./ 49	${\color{red}{ o}}$	_	.4 49	4 40	2 49	.8 49	95 49	.4 49	.7 49	.2 49	.2 48	.7 49	.8 4	.2 49	.3 4	.4 48	.6 48	.9 48
859.7	$\overline{}$	805.5	503. I	000.0	886 6	778.2	883.5	901.2	649.7	189.8	720.4	091.8	9384	288.6	8868	818.6	779.8	740.3
4428	4429	4423	4427	4427	4427	4417	4415	4423	4413	4420	4417	4412	442	4426	4425	4425	4426	4426
).7 32 ⁻	o	3.8 32	32	1 22	2 32	.9 32	32	32	32	.7 32	0.4 32	32	01 32	32	.9 32	32	.7 32	32
794.7	828.5	736.9	704.9	704.0	777 8	700.2	681.1	751.5	675.6	722.7	704.2	640.3	722.4	786.6	790.8	773.4	775.5	780.8
23874	23875	23820	23032	22020	23820	23756	23731	23795	23709	23781	237	23721	23771	23801	23811	23819	23811	23807
1.6 18	5.1 18).7 18	9 18	0 10	19	3.6 18	1.4 18	5.2 18	9.9 18	1.6 18	71 18	1.2	1.9 18	1.4 18	1.3 18	0.4 18	1.4 18	7.7 18
967.2	958.9	906.6	911.2	011.2	8897	843.6	826.1	863.2	819.1	853.2	850.8	8807	845.8	880.6	881.8	884.5	885.4	883.1
150	15025	14978	149	140	14970	14920	14903	14934	148	14919	14915	14881	14911	14935	14937	14945	14946	14943
45 10	5.9 10	3.5 10	02 10	02 10	2 10	0.6 10	3.6 10	4.2 10	86 10	9.9 10	5.5 10	1.2 10	1.1 10	5.9	7.7 10	5.5 10	5.1 10	3.1 10
922.3	896.3	852.7	1047.6	000.4	1838 4	794.9	776.2	796.3	758.7	780.3	776.9	749.7	769.2	10791	789.7	800.1	798.9	797.5
8394.	8360.	8321.	0315.	0000.	8303	8265.	8244.	8260.	8227.	8243.	8241.	821	8232.	8247.	8246.	8256.	8256.	8255.
3 648		5 641		7 64	7 639	4 6350	3 633	9 634	7 631	4 632	4 632	6 630	1 631	2 632	9 632	7 63	7 633	3 633
7.6 45	0.6 44			04 44		6.3 43	6.4 43	6.3 43	7.9 43	3.3 43	6.9 43	5.1 43	6.7 43	3.9 43	3.8 43	40 4	3.9 43	3.9 43
03.3		24.7			1403	68.6	47.8	54.7	29.6	34.9	34.7	14.3	23.3	31.8	31.6	1342	43.1	41.8
3137						3001.6	2979.4	2982.9	2959.9	2962.8	2961.6	2945.4	2950.2	2956.5	2956.2	2968.1	2967.3	2968.2
ı						6	4	<u> </u>	<u> </u>	3	3	4	<u>2</u>	5	2	<u>/</u>	3	<u>2</u>