



UFS vs ZFS  
 FreeBSD 8.2-RELEASE - Untuned  
 2x Intel E5520 - 12GB RAM  
 LSI 9260-8i - 12 disk RAID 0 - Hitachi 2TB SATA

iozone -s 24g -r 128k -+q 30 -i 0 -i 1 -R -t ...

UFS w/ SU, mount -o noatime

UFS - 12 disk RAID 0	UFS Test 1	UFS Test 2	UFS Test 3	UFS Mean	UFS Median
<b>1 Thread</b>					
Write Seq	392,731.91	383652.38	367,461.06	381,281.78	383,652.38
Rewrite Seq	441,653.31	412,463.75	392,284.47	415,467.18	412,463.75
Read Seq	236,329.55	234,364.09		235,346.82	235,346.82
Reread Seq		231,800.23	224,055.61	227,927.92	227,927.92
<b>2 Threads</b>					
Write Seq	511,084.67	506,811.89	493,226.94	503,707.83	506,811.89
Rewrite Seq	555,252.12	524,922.31	534,300.25	538,158.23	534,300.25
Read Seq	312,584.03	296,952.89	249,159.55	286,232.16	296,952.89
Reread Seq	313,614.80	303,354.55	250,926.45	289,298.60	303,354.55
<b>4 Threads</b>					
Write Seq	610,441.14	604,020.38	612,198.75	608,886.76	610,441.14
Rewrite Seq	565,388.12	464,362.98	593,624.47	541,125.19	565,388.12
Read Seq	237,082.51	223,384.09	254,841.14	238,435.91	237,082.51
Reread Seq	237,557.63	215,506.36	251,141.35	234,735.11	237,557.63
<b>8 Threads</b>					
Write Seq	842,887.52	817,648.90	770,103.12	810,213.18	817,648.90
Rewrite Seq	508,681.91	440,209.15	378,331.77	442,407.61	440,209.15
Read Seq	203,540.95	186,455.44	166,351.43	185,449.27	186,455.44
Reread Seq	204,648.35	187,606.80	166,696.24	186,317.13	187,606.80

ZFS, atime=no

ZFS - 12 disk RAID 0	ZFS Test 1	ZFS Test 2	ZFS Test 3	ZFS Mean	ZFS Median
<b>1 Thread</b>					
Write Seq	1,036,001.69	1026316.00	1,053,170.75	1,038,496.15	1,036,001.69
Rewrite Seq	647,984.31	933,103.19	910,008.25	830,365.25	910,008.25
Read Seq	1,031,968.19	1,009,808.31	1,031,069.56	1,024,282.02	1,031,069.56
Reread Seq	1,042,945.06	1,026,743.62	1,043,016.88	1,037,568.52	1,042,945.06
<b>2 Threads</b>					
Write Seq	1,037,764.06	1,003,821.56	1,031,772.62	1,024,452.75	1,031,772.62
Rewrite Seq	1,010,006.84	1,017,860.34	954,636.28	994,167.82	1,010,006.84
Read Seq	856,314.47	833,800.12	840,069.16	843,394.58	840,069.16
Reread Seq	848,169.84	829,140.47	841,762.56	839,690.96	841,762.56
<b>4 Threads</b>					
Write Seq	980,383.91	937,098.16	971,684.03	963,055.37	971,684.03
Rewrite Seq	966,783.23	962,500.12	964,569.61	964,617.65	964,569.61
Read Seq	707,675.61	690,671.44	713,845.45	704,064.17	707,675.61
Reread Seq	712,716.83	699,410.91	717,050.22	709,725.99	712,716.83
<b>8 Threads</b>					
Write Seq	935,735.99	819,052.41	917,321.41	890,703.27	917,321.41
Rewrite Seq	906,499.16	924,128.93	922,789.09	917,805.73	922,789.09
Read Seq	621,655.30	616,210.27	632,408.88	623,424.82	621,655.30
Reread Seq	620,372.73	619,200.55	631,827.38	623,800.22	620,372.73

UFS 1 thread write test was running at 100% CPU; test 1 reread value of 105325.20 was discarded  
 UFS 1 thread read test 3 value of 11,376.09 was discarded

