

# HS06 vs Spectre/Meltdown

# Spectre/Meltdown

	E5-2660	E5-2650v2	E5-2650v2	E5-2640v3	E5-2640v3	E5-2630v3	E5-2630v4
	<b>lcg1555</b>	<b>lcg1611</b>	<b>lcg1675</b>	<b>lcg1803</b>	<b>lcg1863</b>	<b>lcg1999</b>	<b>lcg2151</b>
Microcode original	0x710	0x428	0x428	0x38	0x38	0x38	0xb000025
Kernel (3.10.0-)	693.1.1	693.1.1	693.1.1	693.1.1	693.2.2	693.2.2	693.11.6
Geo Mean	332.84	369.02	368.86	378.83	382.78	349.89	412.57
	<b>lcg1556</b>	<b>lcg1612</b>	<b>lcg1676</b>	<b>lcg1804</b>	<b>lcg1864</b>	<b>lcg2000</b>	<b>lcg2152</b>
Microcode 20180312	0x715	0x42c	0x42c	0x3c	0x3c	0x3c	0xb000025
Kernel (3.10.0-)	693.11.6	693.11.6	693.11.6	693.11.6	693.11.6	693.11.6	693.11.6
Geo Mean	331.11	362.56	363.97	378.31	382.04	350.24	414.65
Difference (means)	-1.73	-6.46	-4.90	-0.51	-0.74	0.35	2.09
Difference New/Old	99.48%	98.25%	98.67%	99.86%	99.81%	100.10%	100.51%
	0.52%	1.75%	1.33%	0.14%	0.19%	-0.10%	-0.51%
	E5-2660	E5-2650v2	E5-2650v2	E5-2640v3	E5-2640v3	E5-2630v3	E5-2630v4

Normal expected variation

# Storage

	fdsstoraged19	fdsstoraged20		
<b>Read heavy</b>				
<b>Kernel</b>	2.6.32-696.18.7.el6	2.6.32-696.13.2.el6		
<b>Run1</b>	91239.64	60612.30		
<b>Run2</b>	87037.08	55897.16		
<b>Run3</b>	89080.56	59659.83		
<b>Run4</b>	90038.61	56287.33		
<b>Run5</b>	87901.20	59635.84		
<b>Geomean</b>	89046.92	58386.19	-30660.73	<u>152.51%</u>
<b>Write heavy</b>				
<b>Kernel</b>	2.6.32-696.18.7.el6	2.6.32-696.13.2.el6		
<b>Run1</b>	21959.44	18486.96		
<b>Run2</b>	23705.30	18870.39		
<b>Run3</b>	22729.15	19431.89		
<b>Run4</b>	21425.90	21572.99		
<b>Run5</b>	23395.78	23621.89		
<b>Geomean</b>	22626.91	20308.47	-2318.44	<u>111.42%</u>

Opportunistic test - patched was faster!