

SUMMARY OF THE CALIBRATION RUNS

Jin Liu

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The note is the summary of recent calibration runs, which were done on the IPB1 29b with Helium and SRI-IPB2 27b with H2. The calibration runs were setting Q power from 15 watt to 70 watt in 5 watt increment in each temperature, and to obtain the relationship of HP(Heater Power) drop after Q Power vs. CoreQPower. We have done three similar runs on IPB1 29b and one run on SRI-IPB2 27b. The Table 1 lists the summary of four runs. In the Table, the slope is the slope of HP drop vs. CoreQPower. Figure 2 through Figure 5 are details of each run.

Table 1. Summary of Calibration Runs

Temp	Correct Factor		IPB1 29b He 10/07/2016				IPB1 29b He 10/15/2016				IPB1 29b He 10/22/2016				27B core sri-ipb2 H2 COP				
		Slope(DC)	HP(NQ)	Slope	C	COP	HP(NQ)	Slope	C	COP	HP(NQ)	Slope	C	COP	Slope(DC)	HP(NQ)	Slope	C	COP
150	1.00	0.49	9.41	0.55	0.01	1.03	9.46	0.52	-0.03	0.98	9.51	0.52	-0.03	1.00	0.42	9.37	0.59	-0.04	1.03
250	1.30	0.54	19.14	0.68	0.01	1.06	19.17	0.64	0.00	1.03	19.21	0.63	-0.01	1.02	0.49	19.11	0.82	-0.04	1.11
300	1.50	0.58	24.80	0.74	-0.01	1.06	24.88	0.70	0.05	1.04	24.86	0.69	0.01	1.03	0.53	24.82	0.92	-0.11	1.13
400	1.60	0.62	37.85	0.75	-0.05	1.07	38.26	0.70	-0.10	1.03	38.15	0.68	-0.09	1.02	0.58	38.17	0.72	0.08	1.04

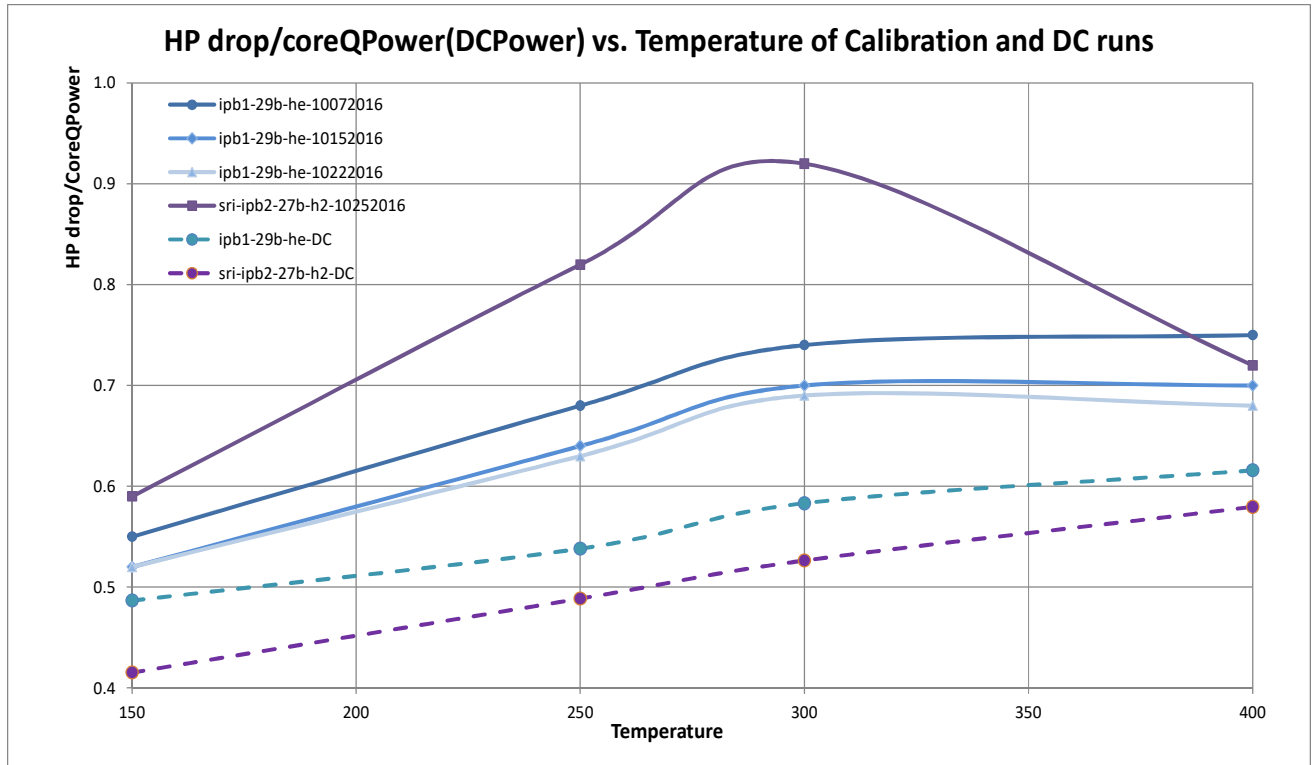


Figure 1 HP drop vs. Temperature of Calibration Runs

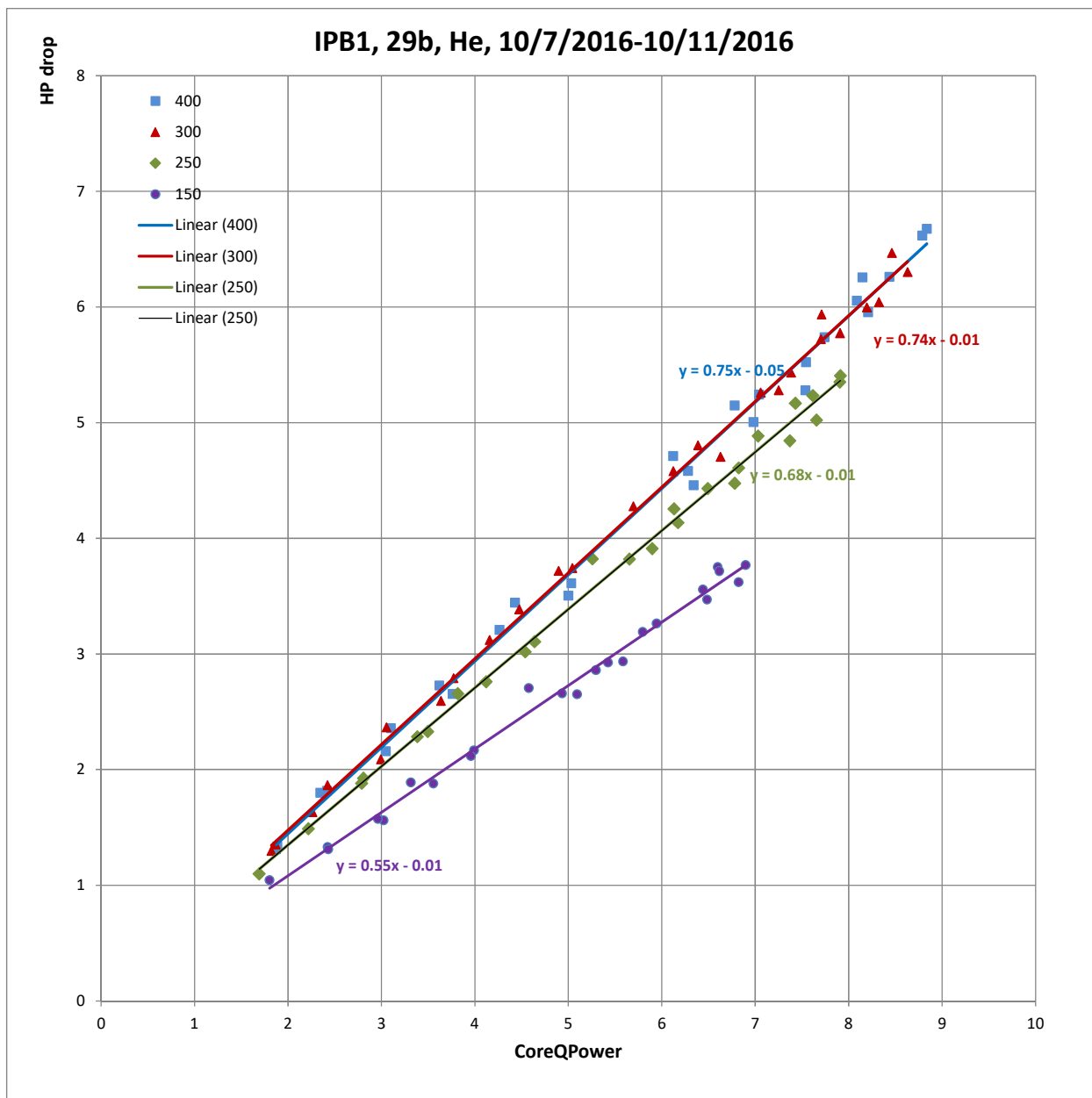


Figure 2 HP drop vs. CoreQPower on IPB1 29b He

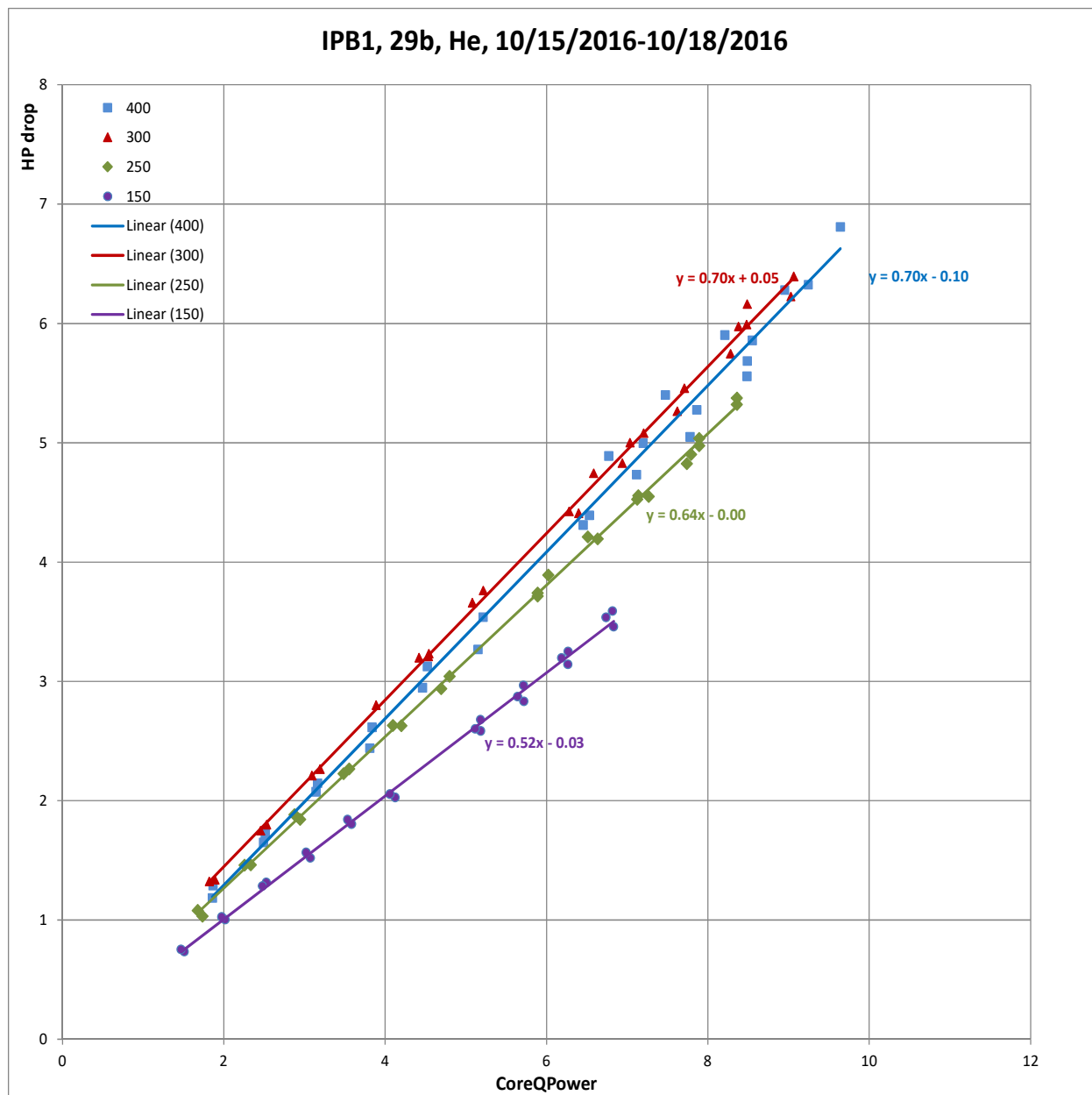


Figure 3 HP drop vs. CoreQPower on IPB1 29b He

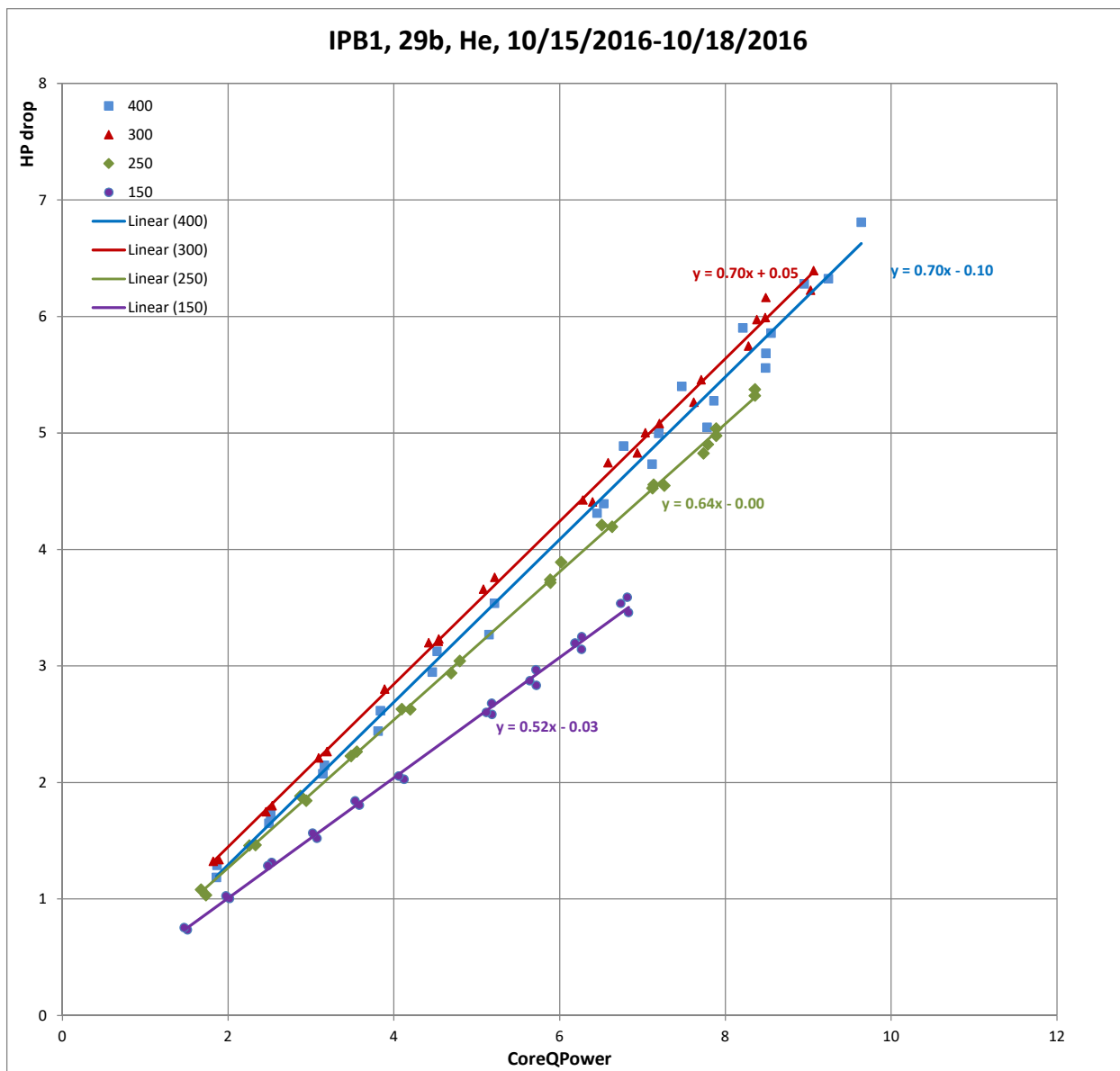


Figure 4 HP drop vs. CoreQPower on IPB1 29b He

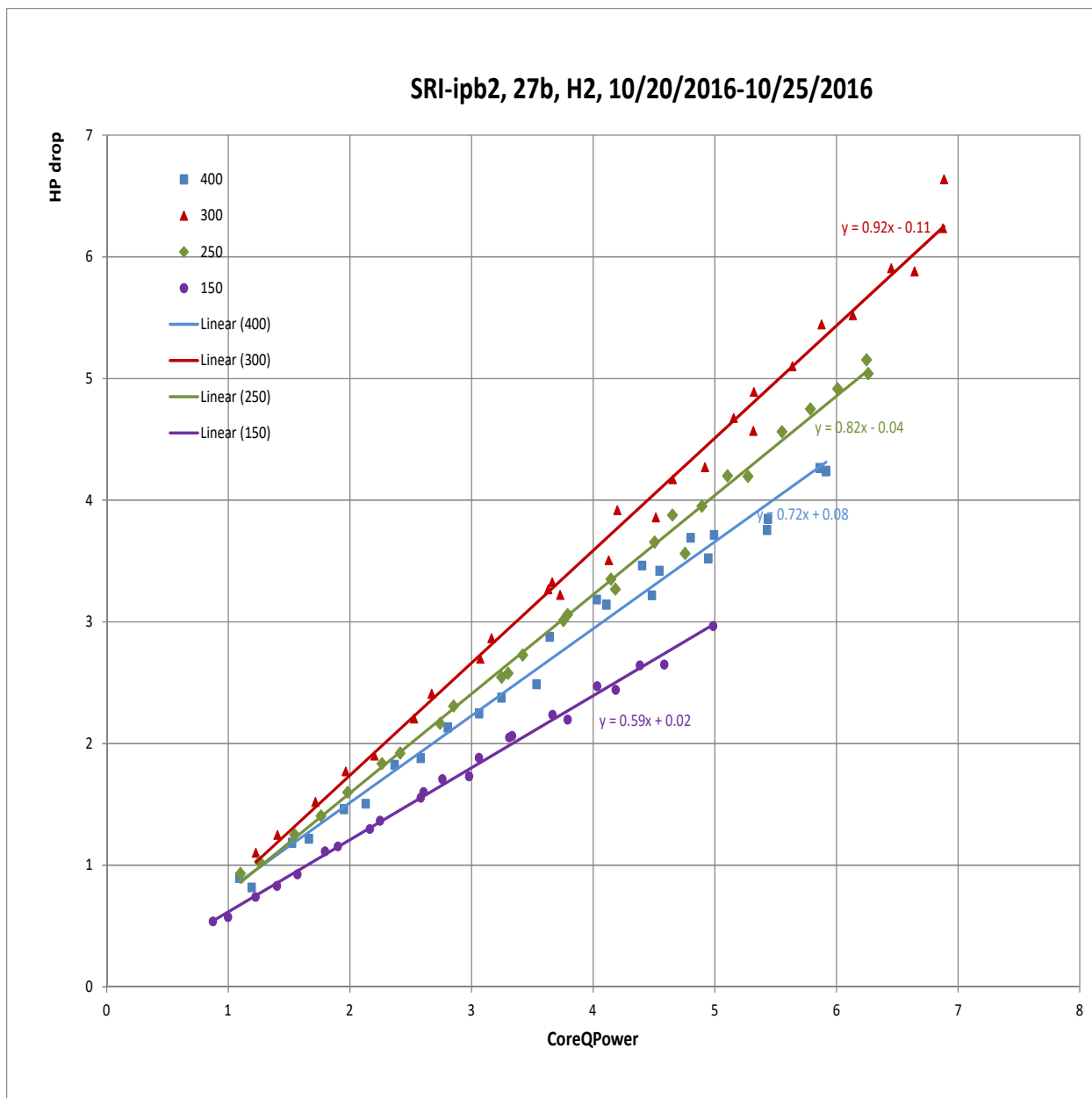


Figure 5 HP drop vs. CoreQPower on SRI-IPB2 27b H2