Norm		ACCELSIM	MICROGPUSIM	MICROGPUSIM (memory only)	MICROGPUSIM (trace reconstr.)
Norm		abelStream (3 ben		<i>,</i> =	1 0007
Norm. DRAM	RMSE MAE	8.43% 8.05%	$egin{array}{ccc} 4.82\% \ 2.78\% \end{array}$	4.82% $2.78%$	$egin{array}{ccc} 4.82\% \ 2.78\% \end{array}$
reads	Corr.	0.998	2.1070	2.1070	2.1070
Norm.	RMSE	39.79%	7.09%	7.09%	7.09%
DRAM writes	MAE	38.74%	4.26%	4.26%	4.26%
	Corr. RMSE	0.998 <b>0.00</b> %	0.00%	0.00%	0.00%
L1D	MAE	0.00%	0.00%	0.00%	0.00%
hit rate	Corr.	1.000	1.000	1.000	1.000
I OD	RMSE	14.29%	9.91%	9.91%	9.91%
L2D hit rate Cycles	MAE	12.11%	5.72%	5.72%	5.72%
	Corr.	0.988	1.000	1.000	1.000
	RMSPE MAPE	$15.52\%$ $\mathbf{14.76\%}$	15.50% 15.49%	19.21% 19.21%	34.89% 34.87%
	Corr.	1.000	1.000	1.000	1.000
		Matrixmul (5 bench	nmark configuratio	ns) @ 28 SM's	
Norm.	RMSE	19.30%	0.13%	0.13%	0.13%
DRAM reads	MAE	14.26% $0.972$	0.06% $1.000$	0.06% $1.000$	0.06% $1.000$
	Corr. RMSE	93.01%	16.57%	16.20%	18.30%
Norm. DRAM writes	MAE	91.54%	7.59%	7.42%	8.36%
writes	Corr.	0.973	1.000	1.000	1.000
L1D	RMSE	0.00%	0.00%	0.03%	0.12%
hit rate	MAE Corr.	0.00% $1.000$	0.00% $1.000$	0.02% <b>1.000</b>	0.06% <b>1.000</b>
	RMSE	54.83%	0.17%	0.18%	0.12%
L2D hit rate	MAE	42.86%	0.08%	0.08%	0.05%
	Corr.	-0.530	1.000	1.000	1.000
01	RMSPE	21.10%	25.08%	29.09%	19.01%
Cycles	MAPE	20.30%	23.83%	27.97% <b>1.000</b>	16.86% $1.000$
	Corr.	1.000 ve Matrixmul (29 be			1.000
Norm.	RMSE	0.70%	0.00%	0.00%	0.00%
DRAM reads	MAE	0.66%	0.00%	0.00%	0.00%
10000	Corr.		1.000	1.000	1.000
Norm. DRAM	RMSE	99.87%	0.30%	0.30%	0.30%
writes	MAE Corr.	99.87% <b>0.519</b>	0.13%	0.13%	0.13%
	RMSE	23.96%	0.85%	0.82%	1.28%
L1D hit rate	MAE	23.84%	0.85%	0.82%	0.99%
	Corr.	0.943	1.000	0.999	1.000
L2D	RMSE	67.10%	0.96%	0.96%	0.96%
hit rate	MAE Corr.	63.58% $-0.524$	0.24%	0.24%	0.24%
	RMSPE	29.56%	25.74%	27.24%	18.32%
Cycles	MAPE	29.30%	25.36%	26.56%	10.16%
	Corr.	0.997	0.993	0.990	0.969
	RMSE	Transpose (6 bench		-	6 0907
Norm. DRAM	MAE	45.49% $44.63%$	$6.93\% \ 3.01\%$	$6.93\% \ 3.01\%$	$6.93\% \ 3.01\%$
reads	Corr.	0.839	0.854	0.854	0.854
Norm.	RMSE	66.56%	18.38%	18.38%	18.38%
DRAM writes	MAE	59.63%	7.58%	7.58%	7.58%
	Corr. RMSE	0.173			
L1D hit rate	UNIQE	U UUIII	0.0004	0.000	0.0004
nii rate	MAE	0.00% $0.00%$	0.00%	0.00%	0.00%
Ī	MAE Corr.	$0.00\% \ 0.00\% \ 1.000$	0.00% 0.00% 1.000	0.00% 0.00% 1.000	0.00% 0.00% 1.000
Lan		0.00%	0.00%	0.00%	0.00%
L2D hit rate	Corr. RMSE MAE	0.00% 1.000 72.54% 66.72%	0.00% 1.000 14.18% 6.91%	0.00% 1.000 14.18% 6.91%	0.00% 1.000 14.18% 6.91%
	Corr. RMSE MAE Corr.	0.00% 1.000 72.54% 66.72% 0.355	0.00% 1.000 14.18% 6.91% 1.000	0.00% 1.000 14.18% 6.91% 1.000	0.00% 1.000 14.18% 6.91% 1.000
	Corr. RMSE MAE	0.00% 1.000 72.54% 66.72%	0.00% 1.000 14.18% 6.91%	0.00% 1.000 14.18% 6.91%	0.00% 1.000 14.18% 6.91%
hit rate	Corr. RMSE MAE Corr. RMSPE	0.00% 1.000 72.54% 66.72% 0.355 38.30%	0.00% 1.000 14.18% 6.91% 1.000 7.32%	0.00% 1.000 14.18% 6.91% 1.000 8.41%	0.00% 1.000 14.18% 6.91% 1.000
hit rate	Corr.  RMSE  MAE  Corr.  RMSPE  MAPE  Corr.	0.00% 1.000 72.54% 66.72% 0.355 38.30% 27.22%	0.00% 1.000 14.18% 6.91% 1.000 7.32% 5.76% 0.999	0.00% 1.000 14.18% 6.91% 1.000 8.41% 7.60% 0.999	0.00% 1.000 14.18% 6.91% 1.000 13.54% 12.97%
hit rate  Cycles  Norm.	Corr.  RMSE  MAE  Corr.  RMSPE  MAPE  Corr.  V	0.00% 1.000 72.54% 66.72% 0.355 38.30% 27.22% 0.911 /ectorAdd (12 bencess)	0.00% 1.000 14.18% 6.91% 1.000 7.32% 5.76% 0.999 chmark configuration 5.07%	0.00% 1.000 14.18% 6.91% 1.000 8.41% 7.60% 0.999 ons) @ 28 SM's 5.07%	0.00% 1.000 14.18% 6.91% 1.000 13.54% 12.97% 0.999
hit rate  Cycles	Corr.  RMSE  MAE  Corr.  RMSPE  MAPE  Corr.  V  RMSE  MAE	0.00% 1.000 72.54% 66.72% 0.355 38.30% 27.22% 0.911	0.00% 1.000 14.18% 6.91% 1.000 7.32% 5.76% 0.999 chmark configuration 5.07%	0.00% 1.000 14.18% 6.91% 1.000 8.41% 7.60% 0.999 ons) @ 28 SM's 5.07% 2.07%	0.00% 1.000 14.18% 6.91% 1.000 13.54% 12.97% 0.999
Norm. DRAM reads	Corr.  RMSE  MAE  Corr.  RMSPE  MAPE  Corr.  V	0.00% 1.000 72.54% 66.72% 0.355 38.30% 27.22% 0.911 FectorAdd (12 bence) 31.76% 29.95%	0.00% 1.000 14.18% 6.91% 1.000 7.32% 5.76% 0.999 chmark configuration 5.07%	0.00% 1.000 14.18% 6.91% 1.000 8.41% 7.60% 0.999 ons) @ 28 SM's 5.07%	0.00% 1.000 14.18% 6.91% 1.000 13.54% 12.97% 0.999
Norm. DRAM reads  Norm. DRAM	Corr.  RMSE  MAE  Corr.  RMSPE  MAPE  Corr.  V  RMSE  MAE  Corr.	0.00% 1.000 72.54% 66.72% 0.355 38.30% 27.22% 0.911 SectorAdd (12 bence) 31.76% 29.95% 0.999	0.00% 1.000 14.18% 6.91% 1.000 7.32% 5.76% 0.999 chmark configuration 5.07% 2.07% 0.995	0.00% 1.000 14.18% 6.91% 1.000 8.41% 7.60% 0.999 ons) @ 28 SM's 5.07% 2.07% 0.995	0.00% 1.000 14.18% 6.91% 1.000 13.54% 12.97% 0.999  5.07% 2.07% 0.995
Norm. DRAM reads	Corr.  RMSE  MAE  Corr.  RMSPE  MAPE  Corr.  V  RMSE  MAE  Corr.  RMSE  MAE  Corr.	0.00% 1.000 72.54% 66.72% 0.355 38.30% 27.22% 0.911 /ectorAdd (12 bence) 31.76% 29.95% 0.999 86.42% 78.33% 0.994	0.00% 1.000 14.18% 6.91% 1.000 7.32% 5.76% 0.999 chmark configuration 5.07% 2.07% 0.995 16.41% 6.34% 0.994	0.00% 1.000 14.18% 6.91% 1.000 8.41% 7.60% 0.999 ons) @ 28 SM's 5.07% 2.07% 0.995 16.41% 6.34% 0.994	0.00% 1.000 14.18% 6.91% 1.000 13.54% 12.97% 0.999  5.07% 2.07% 0.995 16.41% 6.34% 0.994
Norm. DRAM reads  Norm. DRAM writes	Corr.  RMSE  MAE  Corr.  RMSPE  MAPE  Corr.  V  RMSE  MAE  Corr.  RMSE  MAE  Corr.  RMSE  MAE  Corr.	0.00% 1.000 72.54% 66.72% 0.355 38.30% 27.22% 0.911 FectorAdd (12 bence) 31.76% 29.95% 0.999 86.42% 78.33% 0.994 0.00%	0.00% 1.000 14.18% 6.91% 1.000 7.32% 5.76% 0.999 chmark configuration 5.07% 2.07% 0.995 16.41% 6.34% 0.994 0.00%	0.00% 1.000 14.18% 6.91% 1.000 8.41% 7.60% 0.999 ons) @ 28 SM's 5.07% 2.07% 0.995 16.41% 6.34% 0.994 0.00%	0.00% 1.000 14.18% 6.91% 1.000 13.54% 12.97% 0.999  5.07% 2.07% 0.995 16.41% 6.34% 0.994 0.00%
Norm. DRAM reads  Norm. DRAM writes	Corr.  RMSE  MAE  Corr.  RMSPE  MAPE  Corr.  V  RMSE  MAE  Corr.  RMSE  MAE  Corr.  RMSE  MAE  MAE  MAE  MAE  Corr.	0.00% 1.000 72.54% 66.72% 0.355 38.30% 27.22% 0.911 FectorAdd (12 bence) 31.76% 29.95% 0.999 86.42% 78.33% 0.994 0.00% 0.00%	0.00% 1.000 14.18% 6.91% 1.000 7.32% 5.76% 0.999 chmark configuration 5.07% 2.07% 0.995 16.41% 6.34% 0.994 0.00%	0.00% 1.000 14.18% 6.91% 1.000 8.41% 7.60% 0.999 ons) @ 28 SM's 5.07% 2.07% 0.995 16.41% 6.34% 0.994 0.00%	0.00% 1.000 14.18% 6.91% 1.000 13.54% 12.97% 0.999  5.07% 2.07% 0.995 16.41% 6.34% 0.994 0.00% 0.00%
Norm. DRAM reads  Norm. DRAM vrites	Corr.  RMSE  MAE  Corr.  RMSPE  MAPE  Corr.  V  RMSE  MAE  Corr.  RMSE  MAE  Corr.  RMSE  MAE  Corr.	0.00% 1.000 72.54% 66.72% 0.355 38.30% 27.22% 0.911 FectorAdd (12 bence) 31.76% 29.95% 0.999 86.42% 78.33% 0.994 0.00%	0.00% 1.000 14.18% 6.91% 1.000 7.32% 5.76% 0.999 chmark configuration 5.07% 2.07% 0.995 16.41% 6.34% 0.994 0.00%	0.00% 1.000 14.18% 6.91% 1.000 8.41% 7.60% 0.999 ons) @ 28 SM's 5.07% 2.07% 0.995 16.41% 6.34% 0.994 0.00%	0.00% 1.000 14.18% 6.91% 1.000 13.54% 12.97% 0.999  5.07% 2.07% 0.995 16.41% 6.34% 0.994 0.00%
Norm. DRAM reads  Norm. DRAM vrites	Corr.  RMSE MAE Corr.  RMSPE MAPE Corr.  V RMSE MAE Corr.  RMSE MAE Corr.  RMSE MAE Corr.	0.00% 1.000 72.54% 66.72% 0.355 38.30% 27.22% 0.911 FectorAdd (12 bence) 31.76% 29.95% 0.999 86.42% 78.33% 0.994 0.00% 0.00% 1.000	0.00% 1.000 14.18% 6.91% 1.000 7.32% 5.76% 0.999 chmark configuration 5.07% 2.07% 0.995 16.41% 6.34% 0.994 0.00% 0.00% 1.000	0.00% 1.000 14.18% 6.91% 1.000 8.41% 7.60% 0.999 ons) @ 28 SM's 5.07% 2.07% 0.995 16.41% 6.34% 0.994 0.00% 0.00% 1.000	0.00% 1.000 14.18% 6.91% 1.000 13.54% 12.97% 0.999  5.07% 2.07% 0.995 16.41% 6.34% 0.994 0.00% 0.00% 1.000
Norm. DRAM reads  Norm. DRAM writes  L1D hit rate	Corr.  RMSE MAE Corr.  RMSPE MAPE Corr.  V RMSE MAE Corr.  RMSE MAE Corr.  RMSE MAE Corr.  RMSE MAE Corr.	0.00% 1.000 72.54% 66.72% 0.355 38.30% 27.22% 0.911 FectorAdd (12 bence) 31.76% 29.95% 0.999 86.42% 78.33% 0.994 0.00% 1.000 88.89% 81.24%	0.00% 1.000 14.18% 6.91% 1.000 7.32% 5.76% 0.999 chmark configuration 5.07% 2.07% 0.995 16.41% 6.34% 0.994 0.00% 1.000 1.81% 0.69% 0.999	0.00% 1.000 14.18% 6.91% 1.000 8.41% 7.60% 0.999 ons) @ 28 SM's 5.07% 2.07% 0.995 16.41% 6.34% 0.994 0.00% 1.000 1.81% 0.69% 0.999	0.00% 1.000 14.18% 6.91% 1.000 13.54% 12.97% 0.999  5.07% 2.07% 0.995 16.41% 6.34% 0.994 0.00% 1.000 1.81% 0.69% 0.999
Norm. DRAM reads  Norm. DRAM writes  L1D hit rate	Corr.  RMSE MAE Corr.  RMSPE MAPE Corr.  RMSE MAE Corr.  RMSE RMSE RMSE RMSE RMSE RMSE RMSE RMS	0.00% 1.000 72.54% 66.72% 0.355 38.30% 27.22% 0.911 FectorAdd (12 bence) 31.76% 29.95% 0.999 86.42% 78.33% 0.994 0.00% 0.00% 1.000 88.89% 81.24%	0.00% 1.000 14.18% 6.91% 1.000 7.32% 5.76% 0.999 chmark configuration 5.07% 2.07% 0.995 16.41% 6.34% 0.994 0.00% 0.00% 1.000 1.81% 0.69% 0.999 9.40%	0.00% 1.000 14.18% 6.91% 1.000 8.41% 7.60% 0.999 ons) @ 28 SM's 5.07% 2.07% 0.995 16.41% 6.34% 0.994 0.00% 1.000 1.81% 0.69% 0.999 7.74%	0.00% 1.000 14.18% 6.91% 1.000 13.54% 12.97% 0.999  5.07% 2.07% 0.995 16.41% 6.34% 0.994 0.00% 1.000 1.81% 0.69% 0.999 9.69%
Norm. DRAM reads  Norm. DRAM writes  L1D hit rate	Corr.  RMSE MAE Corr.  RMSPE MAPE Corr.  V RMSE MAE Corr.  RMSE MAE Corr.  RMSE MAE Corr.  RMSE MAE Corr.	0.00% 1.000 72.54% 66.72% 0.355 38.30% 27.22% 0.911 FectorAdd (12 bence) 31.76% 29.95% 0.999 86.42% 78.33% 0.994 0.00% 1.000 88.89% 81.24%	0.00% 1.000 14.18% 6.91% 1.000 7.32% 5.76% 0.999 chmark configuration 5.07% 2.07% 0.995 16.41% 6.34% 0.994 0.00% 1.000 1.81% 0.69% 0.999	0.00% 1.000 14.18% 6.91% 1.000 8.41% 7.60% 0.999 ons) @ 28 SM's 5.07% 2.07% 0.995 16.41% 6.34% 0.994 0.00% 1.000 1.81% 0.69% 0.999	0.00% 1.000 14.18% 6.91% 1.000 13.54% 12.97% 0.999  5.07% 2.07% 0.995 16.41% 6.34% 0.994 0.00% 1.000 1.81% 0.69% 0.999
Norm. DRAM reads  Norm. DRAM writes  L1D hit rate	Corr.  RMSE MAE Corr.  RMSPE MAPE Corr.  V RMSE MAE Corr.	0.00% 1.000 72.54% 66.72% 0.355 38.30% 27.22% 0.911 FectorAdd (12 bence) 31.76% 29.95% 0.999 86.42% 78.33% 0.994 0.00% 0.00% 1.000 88.89% 81.24%	0.00% 1.000 14.18% 6.91% 1.000 7.32% 5.76% 0.999 chmark configuration 5.07% 2.07% 0.995 16.41% 6.34% 0.994 0.00% 1.000 1.81% 0.69% 0.999 9.40% 5.62% 0.996	0.00% 1.000 14.18% 6.91% 1.000 8.41% 7.60% 0.999 ons) @ 28 SM's 5.07% 2.07% 0.995 16.41% 6.34% 0.994 0.00% 1.000 1.81% 0.69% 0.999 7.74% 3.53% 0.997	0.00% 1.000 14.18% 6.91% 1.000 13.54% 12.97% 0.999  5.07% 2.07% 0.995 16.41% 6.34% 0.994 0.00% 0.00% 1.000 1.81% 0.69% 0.999 9.69% 4.04%
Norm. DRAM reads  Norm. DRAM writes  L1D hit rate  L2D hit rate  Cycles	Corr.  RMSE MAE Corr.  RMSPE MAPE Corr.  V RMSE MAE Corr.	0.00% 1.000 72.54% 66.72% 0.355 38.30% 27.22% 0.911 FectorAdd (12 bence) 31.76% 29.95% 0.999 86.42% 78.33% 0.994 0.00% 0.00% 1.000 88.89% 81.24%	0.00% 1.000 14.18% 6.91% 1.000 7.32% 5.76% 0.999 chmark configuration 5.07% 2.07% 0.995 16.41% 6.34% 0.994 0.00% 1.000 1.81% 0.69% 0.999 9.40% 5.62% 0.996	0.00% 1.000 14.18% 6.91% 1.000 8.41% 7.60% 0.999 ons) @ 28 SM's 5.07% 2.07% 0.995 16.41% 6.34% 0.994 0.00% 1.000 1.81% 0.69% 0.999 7.74% 3.53% 0.997	0.00% 1.000 14.18% 6.91% 1.000 13.54% 12.97% 0.999  5.07% 2.07% 0.995 16.41% 6.34% 0.994 0.00% 0.00% 1.000 1.81% 0.69% 0.999 9.69% 4.04%
Norm. DRAM writes  L1D hit rate  L2D hit rate  Cycles	Corr.  RMSE MAE Corr.  RMSPE MAPE Corr.  RMSE MAE Corr.	0.00% 1.000 72.54% 66.72% 0.355 38.30% 27.22% 0.911 FectorAdd (12 bence) 31.76% 29.95% 0.999 86.42% 78.33% 0.994 0.00% 0.00% 1.000 88.89% 81.24% 54.40% 43.36% 0.996 Average (55 bench	0.00% 1.000 14.18% 6.91% 1.000 7.32% 5.76% 0.999 hmark configurati 5.07% 2.07% 0.995 16.41% 6.34% 0.994 0.00% 1.000 1.81% 0.69% 0.999 9.40% 5.62% 0.996	0.00% 1.000 14.18% 6.91% 1.000 8.41% 7.60% 0.999 ons) @ 28 SM's 5.07% 2.07% 0.995 16.41% 6.34% 0.994 0.00% 1.000 1.81% 0.69% 0.999 7.74% 3.53% 0.997 ns) @ 28 SM's	0.00% 1.000 14.18% 6.91% 1.000 13.54% 12.97% 0.999 5.07% 2.07% 0.995 16.41% 6.34% 0.994 0.00% 1.000 1.81% 0.69% 0.999 9.69% 4.04% 0.996
Norm. DRAM reads  Norm. DRAM writes  L1D hit rate  L2D hit rate  Cycles	Corr.  RMSE MAE Corr.  RMSPE MAPE Corr.  V RMSE MAE Corr.  RMSPE MAPE Corr.	0.00% 1.000 72.54% 66.72% 0.355 38.30% 27.22% 0.911 FectorAdd (12 bence) 31.76% 29.95% 0.999 86.42% 78.33% 0.994 0.00% 1.000 88.89% 81.24% 54.40% 43.36% 0.996 Average (55 bench) 22.00% 13.49% 0.987	0.00% 1.000 14.18% 6.91% 1.000 7.32% 5.76% 0.999 chmark configuration 5.07% 2.07% 0.995 16.41% 6.34% 0.994 0.00% 1.000 1.81% 0.69% 0.999 9.40% 5.62% 0.996 chmark configuration 3.48% 0.94% 0.963	0.00% 1.000 14.18% 6.91% 1.000 8.41% 7.60% 0.999 ons) @ 28 SM's 5.07% 2.07% 0.995 16.41% 6.34% 0.994 0.00% 1.000 1.81% 0.69% 0.999 7.74% 3.53% 0.997 ns) @ 28 SM's	0.00% 1.000 14.18% 6.91% 1.000 13.54% 12.97% 0.999  5.07% 2.07% 0.995 16.41% 6.34% 0.994 0.00% 1.000 1.81% 0.69% 0.999 9.69% 4.04% 0.996  3.48% 0.994% 0.963
Norm. DRAM reads  L1D hit rate  L2D hit rate  Cycles  Norm. DRAM writes	Corr.  RMSE MAE Corr.  RMSPE MAPE Corr.  RMSE MAE Corr.  RMSPE MAPE Corr.  RMSPE RMSPE RMSPE RMSPE RMSE MAPE Corr.	0.00% 1.000 72.54% 66.72% 0.355 38.30% 27.22% 0.911 FectorAdd (12 bence) 31.76% 29.95% 0.999 86.42% 78.33% 0.994 0.00% 0.00% 1.000 88.89% 81.24% 54.40% 43.36% 0.996 Average (55 benche) 22.00% 13.49% 0.987 90.80%	0.00% 1.000 14.18% 6.91% 1.000 7.32% 5.76% 0.999 chmark configuration 5.07% 2.07% 0.995 16.41% 6.34% 0.994 0.00% 1.000 1.81% 0.69% 0.999 9.40% 5.62% 0.996 chmark configuration 3.48% 0.94% 0.963 11.10%	0.00% 1.000 14.18% 6.91% 1.000 8.41% 7.60% 0.999 ons) @ 28 SM's 5.07% 2.07% 0.995 16.41% 6.34% 0.994 0.00% 1.000 1.81% 0.69% 0.999 7.74% 3.53% 0.997 ns) @ 28 SM's	0.00% 1.000 14.18% 6.91% 1.000 13.54% 12.97% 0.999 5.07% 2.07% 0.995 16.41% 6.34% 0.994 0.00% 1.000 1.81% 0.69% 0.999 9.69% 4.04% 0.996 3.48% 0.994% 0.963 11.35%
Norm. DRAM reads  L1D hit rate  L2D hit rate  Cycles	Corr.  RMSE MAE Corr.  RMSPE MAPE Corr.  RMSE MAE Corr.  RMSPE MAPE Corr.  RMSPE MAPE Corr.  RMSPE MAPE Corr.	0.00% 1.000 72.54% 66.72% 0.355 38.30% 27.22% 0.911 FectorAdd (12 bend 31.76% 29.95% 0.999 86.42% 78.33% 0.994 0.00% 1.000 88.89% 81.24%  54.40% 43.36% 0.996  Average (55 bench 22.00% 13.49% 0.987 90.80% 86.69%	0.00% 1.000 14.18% 6.91% 1.000 7.32% 5.76% 0.999 hmark configuration 5.07% 2.07% 0.995 16.41% 6.34% 0.994 0.00% 1.000 1.81% 0.69% 0.999 9.40% 5.62% 0.996 hmark configuration 3.48% 0.94% 0.963 11.10% 3.20%	0.00% 1.000 14.18% 6.91% 1.000 8.41% 7.60% 0.999 ons) @ 28 SM's 5.07% 2.07% 0.995 16.41% 6.34% 0.994 0.00% 1.000 1.81% 0.69% 0.999 7.74% 3.53% 0.997 ns) @ 28 SM's 3.48% 0.94% 0.963 11.06% 3.18%	0.00% 1.000 14.18% 6.91% 1.000 13.54% 12.97% 0.999 5.07% 2.07% 0.995 16.41% 6.34% 0.994 0.00% 1.000 1.81% 0.69% 0.999 9.69% 4.04% 0.996 3.48% 0.994% 0.996 3.48% 0.94% 0.963 11.35% 3.27%
Norm. DRAM writes  L1D hit rate  L2D hit rate  Cycles  Norm. DRAM writes	Corr.  RMSE MAE Corr.  RMSPE MAPE Corr.  RMSE MAE Corr.  RMSPE MAPE Corr.  RMSPE RMSPE RMSPE RMSPE RMSE MAPE Corr.	0.00% 1.000 72.54% 66.72% 0.355 38.30% 27.22% 0.911 FectorAdd (12 bence) 31.76% 29.95% 0.999 86.42% 78.33% 0.994 0.00% 0.00% 1.000 88.89% 81.24% 54.40% 43.36% 0.996 Average (55 benche) 22.00% 13.49% 0.987 90.80%	0.00% 1.000 14.18% 6.91% 1.000 7.32% 5.76% 0.999 chmark configuration 5.07% 2.07% 0.995 16.41% 6.34% 0.994 0.00% 1.000 1.81% 0.69% 0.999 9.40% 5.62% 0.996 chmark configuration 3.48% 0.94% 0.963 11.10%	0.00% 1.000 14.18% 6.91% 1.000 8.41% 7.60% 0.999 ons) @ 28 SM's 5.07% 2.07% 0.995 16.41% 6.34% 0.994 0.00% 1.000 1.81% 0.69% 0.999 7.74% 3.53% 0.997 ns) @ 28 SM's	0.00% 1.000 14.18% 6.91% 1.000 13.54% 12.97% 0.999  5.07% 2.07% 0.995 16.41% 6.34% 0.994 0.00% 1.000 1.81% 0.69% 0.999 9.69% 4.04% 0.996  3.48% 0.994% 0.9963 11.35%
Norm. DRAM writes  L1D hit rate  L2D hit rate  Cycles  Norm. DRAM writes	Corr.  RMSE MAE Corr.  RMSPE MAPE Corr.  RMSE MAE Corr.  RMSPE MAPE Corr.  RMSPE MAPE Corr.  RMSE MAPE Corr.	0.00% 1.000 72.54% 66.72% 0.355 38.30% 27.22% 0.911 FectorAdd (12 bence) 31.76% 29.95% 0.999 86.42% 78.33% 0.994 0.00% 0.00% 1.000 88.89% 81.24% 54.40% 43.36% 0.996 Average (55 bench) 22.00% 13.49% 0.987 90.80% 86.69% 0.858	0.00% 1.000 14.18% 6.91% 1.000 7.32% 5.76% 0.999 chmark configuration 5.07% 2.07% 0.995 16.41% 6.34% 0.994 0.00% 1.000 1.81% 0.69% 0.999 9.40% 5.62% 0.996 chmark configuration 3.48% 0.94% 0.963 11.10% 3.20% 0.975	0.00% 1.000 14.18% 6.91% 1.000 8.41% 7.60% 0.999 ons) @ 28 SM's 5.07% 2.07% 0.995 16.41% 6.34% 0.994 0.00% 1.000 1.81% 0.69% 0.999 7.74% 3.53% 0.997 ns) @ 28 SM's	0.00% 1.000 14.18% 6.91% 1.000 13.54% 12.97% 0.999 5.07% 2.07% 0.995 16.41% 6.34% 0.994 0.00% 1.000 1.81% 0.69% 0.999 9.69% 4.04% 0.996 3.48% 0.994% 0.996 3.48% 0.94% 0.963 11.35% 3.27% 0.974
Norm. DRAM vrites  L1D hit rate  Cycles  Norm. DRAM writes  L1D hit rate  L2D hit rate  Norm. DRAM reads  Norm. DRAM reads	Corr.  RMSE MAPE Corr.  RMSPE MAPE Corr.  RMSE MAE Corr.  RMSE MAPE Corr.  RMSE MAPE Corr.  RMSE MAPE Corr.  RMSE MAPE Corr.	0.00% 1.000 72.54% 66.72% 0.355 38.30% 27.22% 0.911 FectorAdd (12 bence) 31.76% 29.95% 0.999 86.42% 78.33% 0.994 0.00% 0.00% 1.000 88.89% 81.24%  54.40% 43.36% 0.996  Average (55 benche) 22.00% 13.49% 0.987 90.80% 86.69% 0.858 17.40% 12.57% 0.998	0.00% 1.000 14.18% 6.91% 1.000 7.32% 5.76% 0.999 hmark configuration 5.07% 2.07% 0.995 16.41% 6.34% 0.994 0.00% 1.000 1.81% 0.69% 0.999 9.40% 5.62% 0.996 mark configuration 3.48% 0.94% 0.963 11.10% 3.20% 0.975 0.62% 0.45% 1.000	0.00% 1.000 14.18% 6.91% 1.000 8.41% 7.60% 0.999 ons) @ 28 SM's 5.07% 2.07% 0.995 16.41% 6.34% 0.994 0.00% 1.000 1.81% 0.69% 0.999 7.74% 3.53% 0.997 ns) @ 28 SM's  3.48% 0.94% 0.963 11.06% 3.18% 0.975 0.60% 0.43% 1.000	0.00% 1.000 14.18% 6.91% 1.000 13.54% 12.97% 0.999 5.07% 2.07% 0.995 16.41% 6.34% 0.994 0.00% 1.000 1.81% 0.69% 0.999 9.69% 4.04% 0.996 3.48% 0.996 3.48% 0.996 3.27% 0.974 0.93% 0.53% 1.000
Norm. DRAM vrites  L1D hit rate  Cycles  Norm. DRAM writes  L1D hit rate  L2D hit rate  Norm. DRAM reads  Norm. DRAM reads	Corr.  RMSE MAE Corr.  RMSPE MAPE Corr.  RMSE MAE Corr.  RMSE MAPE Corr.  RMSE MAPE Corr.  RMSE MAPE Corr.  RMSE MAPE Corr.  RMSE MAE Corr.	0.00% 1.000 72.54% 66.72% 0.355 38.30% 27.22% 0.911 PectorAdd (12 bence 31.76% 29.95% 0.999 86.42% 78.33% 0.994 0.00% 1.000 88.89% 81.24% 54.40% 43.36% 0.996 Average (55 bench 22.00% 13.49% 0.987 90.80% 86.69% 0.858 17.40% 12.57% 0.998	0.00% 1.000 14.18% 6.91% 1.000 7.32% 5.76% 0.999 hmark configuratio 5.07% 2.07% 0.995 16.41% 6.34% 0.994 0.00% 1.000 1.81% 0.69% 0.999 9.40% 5.62% 0.996 hmark configuratio 3.48% 0.94% 0.963 11.10% 3.20% 0.975 0.62% 0.45% 1.000 5.34%	0.00% 1.000 14.18% 6.91% 1.000 8.41% 7.60% 0.999 0ns) @ 28 SM's 5.07% 2.07% 0.995 16.41% 6.34% 0.994 0.00% 1.000 1.81% 0.69% 0.999 7.74% 3.53% 0.997 ns) @ 28 SM's 3.48% 0.94% 0.963 11.06% 3.18% 0.975 0.60% 0.43% 1.000 5.34%	0.00% 1.000 14.18% 6.91% 1.000 13.54% 12.97% 0.999 5.07% 2.07% 2.07% 0.995 16.41% 6.34% 0.994 0.00% 1.000 1.81% 0.69% 0.999 9.69% 4.04% 0.996 3.48% 0.996 3.48% 0.94% 0.996 11.35% 3.27% 0.974 0.93% 0.53% 1.000 5.34%
Norm. DRAM writes  L1D hit rate  Cycles  Norm. DRAM writes  L1D hit rate  L2D hit rate  L1D hit rate  L2D hit rate	Corr.  RMSPE MAPE Corr.  RMSPE MAPE Corr.  RMSE MAE Corr.  RMSE MAE Corr.  RMSE MAE Corr.  RMSPE MAPE Corr.  RMSPE MAPE Corr.  RMSPE MAPE Corr.  RMSPE MAPE Corr.  RMSE MAE Corr.	0.00% 1.000 72.54% 66.72% 0.355 38.30% 27.22% 0.911 FectorAdd (12 bence) 31.76% 29.95% 0.999 86.42% 78.33% 0.994 0.00% 0.00% 1.000 88.89% 81.24%  54.40% 43.36% 0.996  Average (55 benche) 22.00% 13.49% 0.987 90.80% 86.69% 0.858 17.40% 12.57% 0.998 70.40% 63.09%	0.00% 1.000 14.18% 6.91% 1.000 7.32% 5.76% 0.999 chmark configuration 5.07% 2.07% 0.995 16.41% 6.34% 0.994 0.00% 1.000 1.81% 0.69% 0.999 9.40% 5.62% 0.996 mark configuration 3.48% 0.94% 0.963 11.10% 3.20% 0.975 0.62% 0.45% 1.000 5.34% 1.35%	0.00% 1.000 14.18% 6.91% 1.000 8.41% 7.60% 0.999 ons) @ 28 SM's 5.07% 2.07% 0.995 16.41% 6.34% 0.994 0.00% 1.000 1.81% 0.69% 0.999 7.74% 3.53% 0.997 ns) @ 28 SM's  3.48% 0.94% 0.963 11.06% 3.18% 0.975 0.60% 0.43% 1.000 5.34% 1.35%	0.00% 1.000 14.18% 6.91% 1.000 13.54% 12.97% 0.999 5.07% 2.07% 0.995 16.41% 6.34% 0.994 0.00% 1.000 1.81% 0.69% 0.999 9.69% 4.04% 0.996 3.48% 0.994% 0.996 3.48% 0.994% 0.996 3.48% 0.994% 0.993% 1.35% 3.27% 0.974 0.93% 0.53% 1.000 5.34% 1.35%
Norm. DRAM writes  L1D hit rate  Cycles  Norm. DRAM writes  L1D hit rate  L2D hit rate  L1D hit rate  L2D hit rate  L2D hit rate	Corr.  RMSE MAPE Corr.  RMSE MAPE Corr.  RMSE MAE Corr.  RMSE MAE Corr.  RMSE MAE Corr.  RMSE MAE Corr.  RMSE MAPE Corr.  RMSE MAE Corr.  RMSE MAE Corr.  RMSE MAE Corr.  RMSE MAE Corr.	0.00% 1.000 72.54% 66.72% 0.355 38.30% 27.22% 0.911 FectorAdd (12 bence) 31.76% 29.95% 0.999 86.42% 78.33% 0.994 0.00% 0.00% 1.000 88.89% 81.24%  54.40% 43.36% 0.996  Average (55 bench) 22.00% 13.49% 0.987 90.80% 86.69% 0.858 17.40% 12.57% 0.998 70.40% 63.09% 0.198	0.00% 1.000 14.18% 6.91% 1.000 7.32% 5.76% 0.999 hmark configuratio 5.07% 2.07% 0.995 16.41% 6.34% 0.994 0.00% 1.000 1.81% 0.69% 0.999 9.40% 5.62% 0.996 mark configuratio 3.48% 0.94% 0.963 11.10% 3.20% 0.975 0.62% 0.45% 1.000 5.34% 1.35% 0.965	0.00% 1.000 14.18% 6.91% 1.000 8.41% 7.60% 0.999 ons) @ 28 SM's 5.07% 2.07% 0.995 16.41% 6.34% 0.994 0.00% 1.000 1.81% 0.69% 0.999 7.74% 3.53% 0.997 ns) @ 28 SM's 3.48% 0.94% 0.963 11.06% 3.18% 0.975 0.60% 0.43% 1.000 5.34% 1.35% 0.965	0.00% 1.000 14.18% 6.91% 1.000 13.54% 12.97% 0.999 5.07% 2.07% 2.07% 0.995 16.41% 6.34% 0.994 0.00% 1.000 1.81% 0.69% 0.999 9.69% 4.04% 0.996 3.48% 0.996 3.48% 0.996 1.35% 3.27% 0.974 0.93% 0.53% 1.000 5.34% 1.35% 0.965
Norm. DRAM writes  L1D hit rate  Cycles  Norm. DRAM writes  L1D hit rate  L2D hit rate  L1D hit rate  L2D hit rate  L2D hit rate	Corr.  RMSPE MAPE Corr.  RMSPE MAPE Corr.  RMSE MAE Corr.  RMSE MAE Corr.  RMSE MAE Corr.  RMSPE MAPE Corr.  RMSPE MAPE Corr.  RMSPE MAPE Corr.  RMSPE MAPE Corr.  RMSE MAE Corr.	0.00% 1.000 72.54% 66.72% 0.355 38.30% 27.22% 0.911 FectorAdd (12 bence) 31.76% 29.95% 0.999 86.42% 78.33% 0.994 0.00% 0.00% 1.000 88.89% 81.24%  54.40% 43.36% 0.996  Average (55 benche) 22.00% 13.49% 0.987 90.80% 86.69% 0.858 17.40% 12.57% 0.998 70.40% 63.09%	0.00% 1.000 14.18% 6.91% 1.000 7.32% 5.76% 0.999 chmark configuration 5.07% 2.07% 0.995 16.41% 6.34% 0.994 0.00% 1.000 1.81% 0.69% 0.999 9.40% 5.62% 0.996 mark configuration 3.48% 0.94% 0.963 11.10% 3.20% 0.975 0.62% 0.45% 1.000 5.34% 1.35%	0.00% 1.000 14.18% 6.91% 1.000 8.41% 7.60% 0.999 ons) @ 28 SM's 5.07% 2.07% 0.995 16.41% 6.34% 0.994 0.00% 1.000 1.81% 0.69% 0.999 7.74% 3.53% 0.997 ns) @ 28 SM's  3.48% 0.94% 0.963 11.06% 3.18% 0.975 0.60% 0.43% 1.000 5.34% 1.35%	0.00% 1.000 14.18% 6.91% 1.000 13.54% 12.97% 0.999 5.07% 2.07% 0.995 16.41% 6.34% 0.994 0.00% 1.000 1.81% 0.69% 0.999 9.69% 4.04% 0.996 3.48% 0.994% 0.996 3.48% 0.994% 0.996 3.48% 1.35% 3.27% 0.974 0.93% 0.53% 1.000 5.34% 1.35%