Table 3

Hydro2d:Associativity 1

Instruction

Size	Block size(bytes)				
	16	32	64	128	256
1K	**0.0549**				
2K	**0.0076**	**0.0048**			
4K	**0.0015**	**0.0009**	**0.0007**		
8K	**0**	**0**	**0**	**0**	
16K	**0**	**0**	**0**	**0**	**0**
32K	**0**	**0**	**0**	**0**	**0**
64K	**0**	**0**	**0**	**0**	**0**
128K	**0**	**0**	**0**	**0**	**0**
256K		**0**	**0**	**0**	**0**
512K			**0**	**0**	**0**
1M				**0**	**0**

Data

Size	Block size(bytes)				
	16	32	64	128	256
1K	**0.1274**				
2K	**0.1001**	**0.1004**			
4K	**0.0717**	**0.0658**	**0.0721**		
8K	**0.0639**	**0.0498**	**0.0466**	**0.0518**	
16K	**0.0617**	**0.0473**	**0.0417**	**0.0439**	**0.0485**
32K	**0.0607**	**0.0462**	**0.0401**	**0.0412**	**0.0434**
64K	**0.0602**	**0.0455**	**0.0389**	**0.0363**	**0.0368**
128K	**0.0583**	**0.0444**	**0.0382**	**0.0354**	**0.0354**
256K		**0.0381**	**0.0315**	**0.0282**	**0.0268**
512K			**0.0273**	**0.0253**	**0.0243**
1M				**0.0034**	**0.0025**

Unified

Size	Block size(bytes)				
	16	32	64	128	256
1K	**0.1106**				
2K	**0.0627**	**0.0544**			
4K	**0.0331**	**0.0300**	**0.0362**		
8K	**0.0251**	**0.0206**	**0.0245**	**0.0278**	
16K	**0.0192**	**0.0155**	**0.0154**	**0.0177**	**0.0252**
32K	**0.0176**	**0.0138**	**0.0123**	**0.0131**	**0.0147**
64K	**0.0169**	**0.0131**	**0.0113**	**0.0108**	**0.0114**
128K	**0.0162**	**0.0125**	**0.0108**	**0.0102**	**0.0105**
256K		**0.0105**	**0.0088**	**0.0081**	**0.0080**
512K			**0.0057**	**0.0070**	**0.0068**
1M				**0.0010**	**0.0008**

Hydro2d:Associativity 2

Instruction

Size	Block size(bytes)				
	16	32	64	128	256
2K	**0.0095**				
4K	**0**	**0**			
8K	**0**	**0**	**0**		
16K	**0**	**0**	**0**	**0**	
32K	**0**	**0**	**0**	**0**	**0**
64K	**0**	**0**	**0**	**0**	**0**
128K	**0**	**0**	**0**	**0**	**0**
256K	**0**	**0**	**0**	**0**	**0**
512K		**0**	**0**	**0**	**0**
1M			**0**	**0**	**0**

Data

Size	Block size(bytes)				
	16	32	64	128	256
2K	**0.0780**				
4K	**0.0597**	**0.0511**			
8K	**0.0454**	**0.0293**	**0.0254**		
16K	**0.0441**	**0.0242**	**0.0155**	**0.0123**	
32K	**0.0437**	**0.0237**	**0.0145**	**0.0102**	**0.0091**
64K	**0.0435**	**0.0235**	**0.0141**	**0.0095**	**0.0079**
128K	**0.0432**	**0.0232**	**0.0139**	**0.0093**	**0.0073**
256K	**0.0387**	**0.0211**	**0.0127**	**0.0086**	**0.0068**
512K		**0.0141**	**0.0081**	**0.0051**	**0.0037**
1M			**0.0033**	**0.0019**	**0.0012**

Unified

Size	Block size(bytes)				
	16	32	64	128	256
2K	**0.0557**				
4K	**0.0226**	**0.0202**			
8K	**0.0139**	**0.0099**	**0.0093**		
16K	**0.0125**	**0.0073**	**0.0052**	**0.0045**	
32K	**0.0121**	**0.0068**	**0.0043**	**0.0032**	**0.0031**
64K	**0.0118**	**0.0065**	**0.0039**	**0.0027**	**0.0024**
128K	**0.0117**	**0.0064**	**0.0038**	**0.0025**	**0.0020**
256K	**0.0104**	**0.0057**	**0.0034**	**0.0023**	**0.0018**
512K		**0.0038**	**0.0022**	**0.0013**	**0.0010**
1M			**0.0009**	**0.0005**	**0.0003**

Hydro2d:Associativity 4

Instruction

Size	Block size(bytes)				
	16	32	64	128	256
4K	**0**				
8K	**0**	**0**			
16K	**0**	**0**	**0**		
32K	**0**	**0**	**0**	**0**	
64K	**0**	**0**	**0**	**0**	**0**
128K	**0**	**0**	**0**	**0**	**0**
256K	**0**	**0**	**0**	**0**	**0**
512K	**0**	**0**	**0**	**0**	**0**
1M		**0**	**0**	**0**	**0**

Data

Size	Block size(bytes)				
	16	32	64	128	256
4K	**0.0544**				
8K	**0.0441**	**0.0268**			
16K	**0.0426**	**0.0215**	**0.0115**		
32K	**0.0426**	**0.0212**	**0.0107**	**0.0054**	
64K	**0.0425**	**0.0212**	**0.0106**	**0.0054**	**0.0028**
128K	**0.0423**	**0.0210**	**0.0106**	**0.0053**	**0.0027**
256K	**0.0393**	**0.0196**	**0.0098**	**0.0049**	**0.0025**
512K	**0.0265**	**0.0132**	**0.0066**	**0.0033**	**0.0016**
1M		**0.0052**	**0.0026**	**0.0013**	**0.0007**

Unified

Size	Block size(bytes)				
	16	32	64	128	256
4K	**0.0194**				
8K	**0.0131**	**0.0088**			
16K	**0.0115**	**0.0059**	**0.0035**		
32K	**0.0115**	**0.0057**	**0.0029**	**0.0015**	
64K	**0.0114**	**0.0057**	**0.0049**	**0.0014**	**0.0007**
128K	**0.0114**	**0.0057**	**0.0028**	**0.0014**	**0.0007**
256K	**0.0106**	**0.0053**	**0.0026**	**0.0013**	**0.0007**
512K	**0.0072**	**0.0036**	**0.0018**	**0.0009**	**0.0005**
1M		**0.0014**	**0.0007**	**0.0003**	**0.0002**

Hydro2d:Associativity 8

Instruction

Size	Block size(bytes)				
	16	32	64	128	256
8K	**0**				
16K	**0**	**0**			
32K	**0**	**0**	**0**		
64K	**0**	**0**	**0**	**0**	
128K	**0**	**0**	**0**	**0**	**0**
256K	**0**	**0**	**0**	**0**	**0**
512K	**0**	**0**	**0**	**0**	**0**
1M	**0**	**0**	**0**	**0**	**0**

Data

Size	Block size(bytes)				
	16	32	64	128	256
8K	**0.0436**				
16K	**0.0426**	**0.0213**			
32K	**0.0426**	**0.0212**	**0.0107**		
64K	**0.0425**	**0.0212**	**0.0106**	**0.0054**	
128K	**0.0424**	**0.0211**	**0.0106**	**0.0053**	**0.0027**
256K	**0.0398**	**0.0198**	**0.0099**	**0.0050**	**0.0025**
512K	**0.0274**	**0.0136**	**0.0068**	**0.0035**	**0.0017**
1M	**0.0096**	**0.0048**	**0.0024**	**0.0012**	**0.0006**

Unified

Size	Block size(bytes)				
	16	32	64	128	256
8K	**0.0119**				
16K	**0.0115**	**0.0059**			
32K	**0.0115**	**0.0057**	**0.0029**		
64K	**0.0115**	**0.0057**	**0.0029**	**0.0014**	
128K	**0.0114**	**0.0057**	**0.0029**	**0.0014**	**0.0007**
256K	**0.0108**	**0.0053**	**0.0027**	**0.0013**	**0.0007**
512K	**0.0074**	**0.0037**	**0.0018**	**0.0009**	**0.0005**
1M	**0.0026**	**0.0013**	**0.0007**	**0.0003**	**0.0002**