Table 6

Nump:Associativity 1

Instruction

Size	Block size(bytes)				
	16	32	64	128	256
1K	**0.0792**				
2K	**0.0542**	**0.0317**			
4K	**0.0489**	**0.0286**	**0.0176**		
8K	**0.0232**	**0.0132**	**0.0079**	**0.0067**	
16K	**0.0055**	**0.0035**	**0.0023**	**0.0027**	**0.0026**
32K	**0**	**0**	**0**	**0.0004**	**0.0004**
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	**0.3506**				
2K	**0.3183**	**0.2796**			
4K	**0.2495**	**0.2471**	**0.2478**		
8K	**0.2471**	**0.2442**	**0.2443**	**0.2455**	
16K	**0.2412**	**0.2387**	**0.2385**	**0.2390**	**0.2395**
32K	**0.2110**	**0.1955**	**0.1884**	**0.1851**	**0.2318**
64K	**0.1288**	**0.0763**	**0.0503**	**0.0377**	**0.2091**
128K	**0.1199**	**0.0656**	**0.0385**	**0.0252**	**0.2031**
256K		**0.0608**	**0.0333**	**0.0197**	**0.0131**
512K			**0.0305**	**0.0167**	**0.0099**
1M				**0.0067**	**0.0041**

Unified

Size	Block size(bytes)				
	16	32	64	128	256
1K	**0.1901**				
2K	**0.1508**	**0.1229**			
4K	**0.1204**	**0.1021**	**0.0929**		
8K	**0.0928**	**0.0824**	**0.0773**	**0.0824**	
16K	**0.0655**	**0.0615**	**0.0603**	**0.0642**	**0.0674**
32K	**0.0454**	**0.0422**	**0.0412**	**0.0422**	**0.0539**
64K	**0.0277**	**0.0171**	**0.0122**	**0.0102**	**0.0451**
128K	**0.0251**	**0.0139**	**0.0085**	**0.0061**	**0.0415**
256K		**0.0127**	**0.0072**	**0.0045**	**0.0034**
512K			**0.0065**	**0.0037**	**0.0025**
1M				**0.0015**	**0.0010**

Nump:Associativity 2

Instruction

Size	Block size(bytes)				
	16	32	64	128	256
2K	**0.0541**				
4K	**0.0229**	**0.0146**			
8K	**0.0195**	**0.0122**	**0.0074**		
16K	**0.0030**	**0.0017**	**0.0008**	**0.0014**	
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	**0.3397**				
4K	**0.2464**	**0.2434**			
8K	**0.2436**	**0.2411**	**0.2401**		
16K	**0.2395**	**0.2373**	**0.2366**	**0.2365**	
32K	**0.2356**	**0.2347**	**0.2345**	**0.2347**	**0.2284**
64K	**0.1251**	**0.0747**	**0.0496**	**0.0375**	**0.1950**
128K	**0.1116**	**0.0558**	**0.0279**	**0.0140**	**0.0281**
256K	**0.1116**	**0.0558**	**0.0279**	**0.0139**	**0.0199**
512K		**0.0558**	**0.0279**	**0.0139**	**0.0069**
1M			**0.0156**	**0.0078**	**0.0039**

Unified

Size	Block size(bytes)				
	16	32	64	128	256
2K	**0.1429**				
4K	**0.0955**	**0.0833**			
8K	**0.0785**	**0.0705**	**0.0652**		
16K	**0.0575**	**0.0555**	**0.0542**	**0.0553**	
32K	**0.0479**	**0.0473**	**0.0474**	**0.0478**	**0.0473**
64K	**0.0258**	**0.0155**	**0.0104**	**0.0080**	**0.0389**
128K	**0.0231**	**0.0115**	**0.0058**	**0.0029**	**0.0059**
256K	**0.0230**	**0.0115**	**0.0057**	**0.0028**	**0.0041**
512K		**0.0115**	**0.0057**	**0.0028**	**0.0014**
1M			**0.0033**	**0.0016**	**0.0008**

Nump:Associativity 4

Instruction

Size	Block size(bytes)				
	16	32	64	128	256
4K	**0.0224**				
8K	**0.0011**	**0.0011**			
16K	**0.0011**	**0.0011**	**0.0005**		
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	**0.2455**				
8K	**0.2431**	**0.2402**			
16K	**0.2386**	**0.2364**	**0.2357**		
32K	**0.2345**	**0.2342**	**0.2341**	**0.2345**	
64K	**0.1162**	**0.0627**	**0.0359**	**0.0227**	**0.2275**
128K	**0.1116**	**0.0558**	**0.0279**	**0.0139**	**0.0239**
256K	**0.1116**	**0.0558**	**0.0279**	**0.0139**	**0.0069**
512K	**0.1116**	**0.0558**	**0.0279**	**0.0139**	**0.0069**
1M		**0.0507**	**0.0253**	**0.0127**	**0.0063**

Unified

Size	Block size(bytes)				
	16	32	64	128	256
4K	**0.0954**				
8K	**0.0583**	**0.0587**			
16K	**0.0513**	**0.0507**	**0.0511**		
32K	**0.0474**	**0.0469**	**0.0468**	**0.0475**	
64K	**0.0241**	**0.0131**	**0.0076**	**0.0049**	**0.0448**
128K	**0.0230**	**0.0115**	**0.0057**	**0.0028**	**0.0050**
256K	**0.0230**	**0.0115**	**0.0057**	**0.0028**	**0.0014**
512K	**0.0230**	**0.0115**	**0.0057**	**0.0028**	**0.0014**
1M		**0.0105**	**0.0052**	**0.0026**	**0.0013**

Nump: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	**0.2422**				
16K	**0.2388**	**0.2364**			
32K	**0.2339**	**0.2339**	**0.2339**		
64K	**0.1116**	**0.0559**	**0.0281**	**0.0141**	
128K	**0.1116**	**0.0558**	**0.0279**	**0.0139**	**0.0071**
256K	**0.1116**	**0.0558**	**0.0279**	**0.0139**	**0.0069**
512K	**0.1116**	**0.0558**	**0.0279**	**0.0139**	**0.0069**
1M	**0.1116**	**0.0558**	**0.0279**	**0.0139**	**0.0069**

Unified

Size	Block size(bytes)				
	16	32	64	128	256
8K	**0.0540**				
16K	**0.0490**	**0.0486**			
32K	**0.0472**	**0.0467**	**0.0464**		
64K	**0.0231**	**0.0116**	**0.0059**	**0.0032**	
128K	**0.0230**	**0.0115**	**0.0057**	**0.0028**	**0.0015**
256K	**0.0230**	**0.0115**	**0.0057**	**0.0028**	**0.0014**
512K	**0.0230**	**0.0115**	**0.0057**	**0.0028**	**0.0014**
1M	**0.0230**	**0.0115**	**0.0057**	**0.0028**	**0.0014**