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 • With only a few blocks of more than 50 blocks the software is faster, otherwise the ASIC is marginally faster • No significant differences The second s	•	 Measurement results show that the performance is almost the same with both alternatives 													
● No significant differences $\frac{10005}{10005} \frac{10005}{10005} \frac{10005}{1000} \frac{1000}{100} 10$	 With only a few blocks of more than 50 blocks the software is faster, otherwise the ASIC is marginally faster 														
no of blocks ASIC ciph times (us) SW ciph times (us) aug diff aug diff 1 336 45 46 56 36 36 46 10 21.74 2 336 78 78 90 72 72 82 6 7.69 4 336 142 143 159 143 144 153 -1 -0.70 8 336 284 286 302 286 288 296 -2 -0.70 12 336 455 46 1873 858 868 668 -5 -0.58 16 336 425 429 413 154 165 165 -6 -0.52 32 336 1143 1149 1161 1154 1155 1165 -6 -0.52 32 336 1472 1720 1723 1733 1737 -1 -0.06 64 336 2308 2317 2342 2308 2347 30 0.86 96	No significant differences														
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		ASIC ciph times (us) SW ciph times (us)											l		
$ \frac{blocks}{1} \frac{block}{3} \frac{blits}{block} \frac{blits}{block} \frac{blits}{block} \frac{block}{4} $		no of				avg diff avg diff									
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			blocks	bits / block	Min	ave	max	min	ave	max	(us)	(%)			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			1	336	45	46	56	36	36	46	10	21.74			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			2	336	78	78	90	/2	72	82	6	7.69			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			4	336	142	143	159	143	144	153	-1	-0.70			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			10	330	425	420	302	200	422	420	-2	-0.70			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			12	336	420	429	440 597	429	433	439	-4	-0.93			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			24	336	853	861	873	858	866	868	-4	-0.70			
48 336 1720 1732 1748 1726 1733 1737 -1 -0.06 64 336 2308 2317 2342 2308 2311 2319 6 0.26 96 336 3487 3497 3522 3462 3467 3473 30 0.86 128 336 4678 4690 4715 4616 4622 4627 68 1.45 196 336 7225 7237 7266 7077 7078 7088 159 2.20 256 336 9477 9491 9524 9242 9245 9253 246 2.59			32	336	1143	1149	1161	1154	1155	1165	-6	-0.52			
64 336 2308 2317 2342 2308 2311 2319 6 0.26 96 336 3487 3497 3522 3462 3467 3473 30 0.86 128 336 4678 4690 4715 4616 4622 4627 68 1.45 196 336 7225 7237 7266 7077 7078 7088 159 2.20 _256 336 9477 9491 9524 9242 9245 9253 246 2.59			48	336	1720	1732	1748	1726	1733	1737	-1	-0.06			
96 336 3487 3497 3522 3462 3467 3473 30 0.86 128 336 4678 4690 4715 4616 4622 4627 68 1.45 196 336 7225 7237 7266 7077 7078 7088 159 2.20 256 336 9477 9491 9524 9242 9245 9253 246 2.59			64	336	2308	2317	2342	2308	2311	2319	6	0.26			
128 336 4678 4690 4715 4616 4622 4627 68 1.45 196 336 7225 7237 7266 7077 7078 7088 159 2.20 256 336 9477 9491 9524 9242 9245 9253 246 2.59			96	336	3487	3497	3522	3462	3467	3473	30	0.86			
196 336 7225 7237 7266 7077 7088 159 2.20 256 336 9477 9491 9524 9242 9245 9253 246 2.59			128	336	4678	4690	4715	4616	4622	4627	68	1.45			
			196	336	7225	7237	7266	7077	7078	7088	159	2.20			
			256	336	9477	9491	9524	9242	9245	9253	246	2.59			
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