

Component	Metric	2012.04.23	12:20	19:12
APF	Page Request	49,927,739	8,087,766	41,839,973
APF	Page Used	1,634,422	182,286	1,452,136
APF	Page Discarded	0	0	0
APF	Performed	1,650,296	183,600	1,466,696
APF	Denied IO Structure	46	15	31
APF	Denied Limit	0	0	0
APF	Denied ReUse	13,153	661	12,492
APF	Buffer Found Wait	57,785	3	57,782
APF	Buffer Found NoWait	48,206,459	7,903,487	40,302,972
APF	Wait IO	1,066,873	121,826	945,047
Application	Priority Change	85,238	56,645	28,593
Application	Priority Change High	27,633	19,929	7,704
Application	Priority Change Medium	46,726	30,386	16,340
Application	Priority Change Low	10,879	6,330	4,549
Application	Exhausted Timeslice	1,950	1,133	817
Application	Exhausted Timeslice High	0	0	0
Application	Exhausted Timeslice Medium	1,946	1,129	817
Application	Exhausted Timeslice Low	4	4	0
Application	Skipped Task	0	0	0
Application	Engine Scope Change	0	0	0
Context Sw	Voluntary Yield	313,495	206,180	107,315
Context Sw	Cache Miss	3,231,106	263,594	2,967,512
Context Sw	Logical Lock	25,135	17,635	7,500
Context Sw	Address Lock	65	38	27
Context Sw	Latch	1,081	696	385
Context Sw	LW Protection	18,938	15,096	3,842
Context Sw	Disk Device	0	0	0
Context Sw	System Disk Write	133,775	91,704	42,071
Context Sw	User Log Cache	2,187	1,619	568
Context Sw	Log IO Structure	5,047	3,885	1,162
Context Sw	Log Last Page Write	196,415	137,156	59,259
Context Sw	Log Group Commit	43,033	32,795	10,238
Context Sw	Network Receive	3,951,061	2,409,636	1,541,425
Context Sw	Network Send	2,886,307	1,567,337	1,318,970
Context Sw	Network Other	7,915,687	4,834,220	3,081,467
Context Sw	Exceed BatchSize	217	129	88
Context Sw	Other	2,027,779	137,584	1,890,195
Data Cache	Search	365,246,089	161,393,936	203,852,153
Data Cache	Hit	359,830,560	160,578,716	199,251,844
Data Cache	Miss	5,415,529	815,220	4,600,309
Data Cache	Buffer Grab	22,078,482	2,282,296	19,796,186
Data Cache	Buffer Grab Dirty	0	0	0
Data Cache	Buffer Used Cached	349,388,089	160,209,099	189,178,990
Data Cache	Buffer Used Discarded	6,714,828	1,294,767	5,420,061
Data Cache	LIO Request	3,027,693	634,648	2,393,045
Data Cache	LIO Performed	1,574,169	190,327	1,383,842
Data Cache	LIO Denied PoolSize	20	20	0
Data Cache	LIO Denied Resident	1,456,892	444,301	1,012,591
Data Cache	LIO Page Cached	6,296,676	761,308	5,535,368
Data Cache	LIO Page Used	5,611,025	527,741	5,083,284
Data Cache	Dirty Read Page	0	0	0
Data Cache	Dirty Read Restart	0	0	0
Disk	Check	3,837,797,466	1,870,444,863	1,967,352,603
Disk	Check Returned IO	1,359,839,213	343,829,272	1,016,009,941
Disk	IO Max Outstanding	786	644	786
Disk	IO Request	5,532,347	838,629	4,693,718
Disk	IO Completed	5,532,706	838,854	4,693,852
Disk	IO Completed Synch	0	0	0
Housekeeper	Buffer Wash	1,700,922	967,494	733,428
Housekeeper	Buffer Wash Clean	1,670,451	950,725	719,726
Housekeeper	Buffer Wash Dirty	30,471	16,769	13,702
Housekeeper	Garbage Collection	18,071	11,287	6,784
Housekeeper	Garbage Collection Page	1	0	1

- Normally there are 24 x 60 min or 48 x 30 min periods across the page; here there are just two
- 12:20 is 60 mins
- 19:12 is 30 mins

12:20	19:12
2.1%	1.0%
2.7%	26.9%
0.2%	0.1%
0.0%	0.0%
0.0%	0.0%
0.2%	0.0%
0.0%	0.0%
0.9%	0.4%
0.0%	0.0%
0.0%	0.0%
1.4%	0.5%
0.3%	0.1%
24.8%	14.0%
16.1%	12.0%
49.7%	27.9%
0.0%	0.0%
1.4%	17.1%

- Negative values in sysmon are discarded



# Sysmon Report/Component

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Component	Metric	2012.04.23	12:20	19:12
Housekeeper	Checkpoint Normal	262	193	69
Housekeeper	Checkpoint Free Write	0	0	0
Housekeeper	Update Statistics	22,864	14,192	8,672
Index	APL Insert/Update	106	35	71
Index	APL Insert/Update NCI Update	106	35	71
Index	APL Delete	46	16	30
Index	APL Delete NCI Update	46	16	30
Index	DOL Update/Delete	224,019	96,945	127,074
Index	DOL Update/Delete NCI Update	290,504	150,076	140,428
Index	Page Split	18,618	10,114	8,504
Index	Page Split APL	0	0	0
Index	Page Split APL NCI Update	0	0	0
Index	Page Split CI Retry	0	0	0
Index	Page Split CI Deadlock	0	0	0
Index	Page Split Added Idx Level	2	2	0
Index	Idx Page Shrink	0	0	0
Index	Idx Page Shrink Deadlock	0	0	0
Index	Idx Page Shrink Exceeded Retry	0	0	0
Index	Scan	98,576,063	38,124,495	60,451,568
Index	Scan Ascending APL	41,480,170	21,444,291	20,035,879
Index	Scan Ascending DOL	53,261,514	16,674,468	36,587,046
Index	Scan Descending APL	16,002	5,735	10,267
Index	Scan Descending DOL	3,818,377	1	3,818,376
Kernel	CPU Busy	6.2	3.9	8.5
Kernel	IO Busy	9.8	2.3	17.4
Kernel	CPU Yield	4,682,237	3,443,953	1,238,284
Kernel	Network Block (Yield)	4,682,149	3,443,896	1,238,253
Kernel	Context Switch	20,751,328	9,719,304	11,032,024
Kernel	Connection	8,219	4,131	4,088
Kernel	Allocated Page	194,818	150,126	44,692
Kernel	Released Page	194,832	150,141	44,691
Lock	Wait	25,200	17,673	7,527
Lock	Request	155,368,290	95,867,135	59,501,155
Lock	Request Table	17,798,056	10,484,520	7,313,536
Lock	Request Table-Excl	67,746	35,070	32,676
Lock	Request Table-Excl-Int	359,235	257,200	102,035
Lock	Request Table-Share	509	183	326
Lock	Request Table-Share-Int	16,951,114	9,867,497	7,083,617
Lock	Request Page & Row	92,737,884	63,153,716	29,584,168
Lock	Request Page-Excl	53,799	39,234	14,565
Lock	Request Page-Share	37,266,738	24,128,008	13,138,730
Lock	Request Page-Updt	955,608	696,531	259,077
Lock	Request Row-Excl	1,073,564	576,963	496,601
Lock	Request Row-Share	53,246,380	37,639,546	15,606,834
Lock	Request Row-Updt	88,335	44,770	43,565
Lock	Request Next-Key	0	0	0
Lock	Request Address	45,305,344	22,582,181	22,723,163
Lock	Request Address-Excl	73,194	47,646	25,548
Lock	Request Address-Share	45,232,068	22,534,487	22,697,581
Lock	Request Heap-LastPage	30,034,639	18,828,248	11,206,391
Lock	Deadlock	0	0	0
Lock	Deadlock Search	19	12	7
Lock	Promotion	2,006	560	1,446
Lock	Promotion Page-Excl	0	0	0
Lock	Promotion Page-Share	0	0	0
Lock	Promotion Row-Excl	2,006	560	1,446
Lock	Promotion Row-Share	0	0	0
Lock	Promotion Next-Key-Share	0	0	0
Lock	Timeout	0	0	0
Log	Flush ULC Full	333,385	189,091	144,294
Log	Flush Commit	224,210	158,988	65,222
Log	Flush Db Change	336	232	104
Log	Flush Single Log Record	11,772	8,473	3,299

12:20	19:12
48.9%	64.1%
41.1%	29.0%
0.1%	0.0%
2.2%	1.5%



# Sysmon Report/Component

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Component	Metric	2012.04.23	12:20	19:12	12:20	19:12
Log	Flush DOL Conflict	41,828	29,774	12,054	7.7%	5.4%
Log	Flush Other	0	0	0	0.0%	0.0%
Log	Skipped Flush	49,865	27,727	22,138		
Log	ULC Grant	15,130,783	9,199,928	5,930,855		
Log	ULC Wait	2,187	1,619	568		
Log	ULC Record	11,333,535	6,686,426	4,647,109		
Log	Max ULC Size	0	0	0		
Log	IO Structure Grant	684,233	409,663	274,570		
Log	IO Structure Wait	5,047	3,885	1,162		
Log	Allocate	444,413	255,179	189,234		
Log	Write	353,660	221,409	132,251		
MDA	Execution Plan Wait	153	99	54		
MDA	SQL Text Overflow	24,978	13,455	11,523		
MDA	Max SQL Text	72,889	72,889	72,889		
Network	Check	3,819,549,713	1,862,047,182	1,957,502,531		
Network	Check NonBlock	3,814,867,564	1,858,603,286	1,956,264,278		
Network	Request	6,837,369	3,976,974	2,860,395		
Network	IO Delayed	0	0	0		
Network	Packet Received	3,950,867	2,409,683	1,541,184		
Network	Byte Received	1,803,301,754	986,983,773	816,317,981		
Network	Packet Sent	6,642,345	3,235,483	3,406,862		
Network	Byte Sent	0	0	0		
Proc Cache	Procedure Request	2,718,947	1,467,536	1,251,411		
Proc Cache	Procedure Read	128	85	43		
Proc Cache	Procedure Write	8	2	6		
Proc Cache	Procedure Removal	61,123	48,417	12,706		
Proc Cache	Recompiled	126	83	43		
Proc Cache	Recompiled Execution	126	83	43		
Proc Cache	Recompiled Compilation	0	0	0		
Proc Cache	Recompiled Cursor	0	0	0		
Proc Cache	Recompiled Redefinition	0	0	0		
Stmt Cache	Hit	2,620,256	1,394,494	1,225,762		
Stmt Cache	Miss	28,323	21,467	6,856		
Stmt Cache	Statement Cached	6,696	3,490	3,206		
Stmt Cache	Statement Dropped	6,723	3,655	3,068		
Stmt Cache	Statement Restored	226	105	121		
Stmt Cache	Statement Discarded	0	0	0		
Transaction	Commit	242,901	163,338	79,563		
Transaction	Affected Row	43,688,028	26,865,124	16,822,904		
Transaction	Insert	43,408,149	26,727,697	16,680,452		
Transaction	Insert APL Clustered	0	0	0		
Transaction	Insert APL Heap	30,034,639	18,828,248	11,206,391		
Transaction	Insert DOL	10,763,625	7,114,042	3,649,583		
Transaction	Insert Fast BCP	2,609,885	785,407	1,824,478		
Transaction	Update	173,507	120,689	52,818		
Transaction	Update APL Direct	52,389	38,283	14,106		
Transaction	Update APL Deferred	1,092	728	364		
Transaction	Update DOL Direct	120,024	81,676	38,348		
Transaction	Update DOL Deferred	2	2	0		
Transaction	Delete	106,372	16,738	89,634		
Transaction	Delete APL Direct	600	400	200		
Transaction	Delete APL Deferred	1,092	728	364		
Transaction	Delete DOL (Mark)	104,680	15,610	89,070		
Worker	Request	0	0	0		
Worker	Request Grant	0	0	0		
Worker	Request Denied	0	0	0		
Worker	Request Terminated	0	0	0		
Worker	Used	0	0	0		
Worker	Max Used	0	0	0		
Worker	Memory Request	0	0	0		
Worker	Memory Request Grant	0	0	0		
Worker	Memory Request Failed	0	0	0		
Worker	Memory Used Average	0	0	0		

• Counter overflowed

# Sysmon Report/Component

## ASE Workload

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Component	Metric	12:20	Ratio%	What
Network	Packet Received	2,409,683		
Network	Packet Sent	3,235,483	134.3%	sent/received
Transaction	Commit	163,338		
Transaction	Affected Row	26,865,124	16,447.6%	164 rows/xact
Transaction	Insert	26,727,697	99.5%	DML
Transaction	Update	120,689	0.4%	DML
Transaction	Delete	16,738	0.1%	DML
Data Cache	Buffer Used Cached	160,209,099	596.3%	buffers/row
Data Cache	Buffer Used Discarded	1,294,767		
APF	Performed	183,600		
Lock	Request	95,867,135	356.8%	locks/row
Lock	Request Table	10,484,520	14.2%	
Lock	Request Page & Row	63,153,716	85.8%	
Log	Allocate	255,179	156.2%	Allocate/xact
Log	Write	221,409	135.6%	Write/xact
Disk	IO Completed	838,854	513.6%	IO/xact