+ +	VAX/VMS Monitor Utility
AVE	PAGE MANAGEMENT STATISTICS
++	MULTI-FILE SUMMARY

Node:	FALCON		HAWK	OSPREY	
	17-SEP-1986 17-SEP-1986				

	Page Fault Rate	50.72	44.54	56.54
	Page Read Rate	18.98	16.35	16.92
	Page Read I/O Rate	2.21	1.71	1.87
	Page Write Rate	6.22	2.41	0.00
	Page Write I/O Rate	0.06	0.02	0.00
2	Free List Fault Rate	8.81	9.31	9.25
	Modified List Fault Rate	17.90	10.93	13.11
	Demand Zero Fault Rate	8.63	13.53	21.19
	Global Valid Fault Rate	12.81	8.90	10.99
	Wrt In Progress Fault Rate	0.02	0.00	0.00
	System Fault Rate	0.47	0.60	0.00
	Free List Size	2387.70	17658.49	48573.88
	Modified List Size	248.76	927.69	1789.42

- Page Fault Rate—Rate of page faults for all working sets
- Page Read Rate—Rate of pages read from disk as a result of page faults
- Page Read I/O Rate—Rate of read I/O operations from disk as a result of page faults
- Page Write Rate—Rate at which pages were written to the page file
- Page Write I/O Rate—Rate of write I/O operations to the paging file
- Free List Fault Rate—Rate at which pages were read from the free page list as a result of page faults
- Modified List Fault Rate—Rate of pages read from the modified page list as a result of page faults
- Demand Zero Fault Rate—Rate at which zero-filled pages were allocated as a result of page faults
- Global Valid Fault Rate—Rate of page faults for pages that are not in the process's working set but are in physical memory and are indicated as valid pages in the system-wide global page tables
- Writes In Progress Fault Rate—Rate of pages read that were in the process
 of being written back to disk, when faulted
- System Fault Rate—Rate of page faults for pages in system space
- Free List Size—Number of pages on the free page list
- Modified List Size—Number of pages on the modified page list

HARD < (Total)

++	VAX/VMS Monitor Utility
AVE	I/O SYSTEM STATISTICS
++	MULTI-FILE SUMMARY

	FALCON	HAWK	OSPREY
	EP-1986 14:26	17-SEP-1986 14:26	17-SEP-1986 14:14
	EP-1986 15:21	17-SEP-1986 15:21	17-SEP-1986 15:23
Direct I/O Rate	27.77	22.46	33.70
Buffered I/O Rate	15.11	11.35	22.51
Mailbox Write Rate	1.91	0.24	0.61
Window Turn Rate	0.01	0.18	2.02
Log Name Translation Ray	te 6.09	14.75	9.89
File Open Rate	0.48	0.66	0.82
Page Fault Rate	50.72	44.54	56.54
Page Read Rate	18.98	16.35	16.92
Page Read I/O Rate	2.21	1.71	1.87
Page Write Rate	6.22	2.41	0.00
Page Write I/O Rate	0.06	0.02	0.00
Inswap Rate	0.00	0.00	0.00
Free List Size	2387.67	17658.49	48573.88
Modified List Size	248.80	927.69	1789.42

- Direct I/O Rate—Rate of direct I/O (for example, disk and tape) operations
- Buffered I/O Rate—Rate of buffered I/O (for example, terminal and line printer) operations
- Mailbox Write Rate—Rate of write-to-mailbox requests received by the system
- Window Turn Rate—Rate of file-mapping window misses
- Log Name Translation Rate—Rate of logical name translations
- File Open Rate—Rate at which files were opened
- Page Fault Rate—Rate of occurrence of page faults for all working sets
- Page Read Rate-Rate of pages read from disk as a result of page faults
- Page Read I/O Rate—Rate of read I/O operations from disk as a result of page faults
- Page Write Rate—Rate of pages written to the paging file
- Page Write I/O Rate—Rate of write I/O operations to the paging file
- Inswap Rate—Rate at which working sets were read into memory from the swapping file
- Free List Size—Number of pages on the free page list
- Modified List Size—Number of pages on the modified page list.

++	VAX/VMS Monitor Utility
AVE	LOCK MANAGEMENT STATISTICS
++	MULTI-FILE SUMMARY

	Node: From: To:	17-SEP-1	LCON 986 14:26 986 15:21	HAWK 17-SEP-1986 17-SEP-1986		OSPRI 17-SEP-1986 17-SEP-1986	5 14:14
New ENQ Rate Converted EN			17.06 20.06		12.76 7.23		13.08 11.56
DEQ Rate Blocking AST	Rate		17.06 0.20		12.73 0.05		13.09 0.00
ENQs Forced ' ENQs Not Que			0.31 0.01	,	0.20 0.01		0.03
Deadlock Sea Deadlock Find		ce	0.00		0.00		0.00
Total Locks Total Resour	ces		1342.69 918.83		309.00 306.03		456.5 0 776.94

- New ENQ Rate—Rate of new lock (ENQ) requests (as opposed to conversions)
- Converted ENQ Rate—Rate of lock (ENQ) conversion requests
- DEQ Rate—Rate of unlock (DEQ) requests
- Blocking AST Rate—Rate of lock manager blocking ASTs delivered
- ENQs Forced To Wait Rate—Rate of occurrence of locks that could not be granted immediately, thus having to wait
- ENQs Not Queued Rate—Rate of occurrence of locks that could not be granted immediately but requested not to be queued, and thus received an error status instead
- Deadlock Search Rate—Rate at which a deadlock search was performed
- Deadlock.Find Rate—Rate at which a deadlock was found
- Total Locks—Total number of locks in the system
- Total Resources—Total number of resources in the system

AVE DISTRIBUTED LOCK MANAGEMENT STATISTICS							
+	+	MULTI-FILE SUMMARY					
	Node: FA	LCON	HAWK		OSPREY		
	From: 17-SEP-1	986 14:26	17-SEP-1986	14:26	17-SEP-1986 14:14		
	To: 17-SEP-1	986 15:21	17-SEP-1986	15:21	17-SEP-1986 15:23		
New ENQ Rate	(Local)	8.71		6.76	6.65		
HOW THAT THE P	(Incoming)	8.25		2.38	0.00		
	(Outgoing)	0.10		3.60	6.42		
Converted EN	Q Rate (Local)	9.94		2.70	9.56		
	(Incoming)	10.09		0.76	0.00		
	(Outgoing)	0.02		3.76	1.99		
DEQ Rate	(Local)	8.70		6.74	6.66		
	(Incoming)	8.26		2.37	0.00		
	(Outgoing)	0.09		3.61	6.42		
Blocking AST	Rate (Local)	0.08		0.00	0.00		
_	(Incoming)	0.00		0.05	0.00		
	(Outgoing)	0.12		0.00	0.00		
Dir Functn R	ate (Incoming)	3.58		1.43	5.84		
	(Outgoing)	1.78		4.20	1.81		
Deadlock Mes	sage Rate	0.00		0.00	0.00		
	N ENO B	/7 1) 5		-			

VAX/VMS Monitor Utility

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• New ENQ Rate (Local)—Rate of new lock (ENQ) requests that originate and are performed on this system

- New ENQ Rate (Incoming)—Rate of new lock requests that originate on other systems and are performed on this system
- New ENQ Rate (Outgoing)—Rate of new lock requests that originate on this system and are performed on another system
- Converted ENQ Rate (Local)—Rate of lock (ENQ) conversion requests that originate and are performed on this system
- Converted ENQ Rate (Incoming)—Rate of lock conversion requests that originate on other systems and are performed on this system
- Converted ENQ Rate (Outgoing)—Rate of lock conversion requests that originate on this system and are performed on another system
- DEQ Rate (Local)—Rate of unlock (DEQ) requests that originate and are performed on this system
- DEQ Rate (Incoming)—Rate of unlock requests that originate on other systems and are performed on this system
- DEQ Rate (Outgoing)—Rate of unlock requests that originate on this system and are performed on another system
- Blocking AST Rate (Local)—Rate of lock manager blocking ASTs that originate and are performed on this system
- Blocking AST Rate (Incoming)—Rate of lock manager blocking ASTs that originate on other systems and are performed on this system
- Blocking AST Rate (Outgoing)—Rate of lock manager blocking ASTs that originate on this system and are performed on another system
- Directory Function Rate (Incoming)— Rate of requests for locks being managed by this node
- Directory Function Rate (Outgoing)— Rate of requests for locks being managed by other nodes
- Deadlock Message Rate—Rate of incoming and outgoing messages required for deadlock detection

+	VAX/VMS Monitor Utility
AVE	DISK I/O STATISTICS
+	MULTI-FILE SUMMARY

I/O Operation Rate

AVE

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	Node:	FALCON	HANK	OSPREY	
	From: 17	-SEP-1986 14:26	17-SEP-1986 14:26	17-SEP-1986 14:14	
	To: 17	-SEP-1986 15:21	17-SEP-1986 15:21	17-SEP-1986 15:23	
		2.54	0.02	0.05	
\$2\$DRB0:	MSA0017		8.98	2.13	
\$2\$DRB2:	MSA0004		0.32	0.10	
\$2\$DRB4:	MSA0026 MSA0035	2.02	0.01	2.94	
\$2\$DRB5:	MSA0035 MSA0011	0.20	0.00	0.00	
\$2\$DRB7: \$2\$DRD0:	MSA0011	0.26	0.33	8.08	
\$1\$DRAO:	MSA0044 MSA0014	0.00	0.01	0.01	
\$1\$DRA1:	MSA0014 MSA0034	0.00	0.08	0.38	
\$1\$DRAZ:	MSA0021	0.00	2.26	0.31	
\$1\$DRA3:	MSA0008	0.00	0.00	0.01	
\$1\$DRA4:	MSA0023	0.00	0.00	0.01	
\$1\$DRA5:	MSA0021	0.00	0.18	0.09	
\$1\$DRB3:	MSA0032	0.00	0.00	0.01	
\$1\$DRB4:	MSA0025		3.21	0.01	
\$1\$DRB6:	MSA0033	0.63	0.61	0.01	
\$2\$DRAO:	MSA0003	0.00	0.00	0.01	
\$2\$DRA4:	MSA0029		0.26	0.01	
\$2\$DRA6:	MSA0030	0.00	0.00	0.01	
\$2\$DRC0:	MSA0036		1.22	11.69	
\$2\$DRCU:	MSA0037		0.01	0.00	
\$2\$DRC2:	MSA0042		0.08	0.04	
\$2\$DRC3:	MSA0041	0.00	0.34	0.03	
\$2\$DRD2:	MSA0046	0.00	3.51	9.40	
\$2\$DRD4:	MSA0047	0.00	0.39	0.01	
\$2\$DRD5:	MSA0048	0.00	0.65	0.80	
\$2\$DRD3:	MSA0043		0.07	1.33	
\$2\$DRB1:	SCRATCH		0.00	0.00	
sestimat:	فالمناعة لساة	V 8 J 44			

++	VAX/VMS Monitor Utility
AVE	DISK I/O STATISTICS
++	MULTI-FILE SUMMARY

I/O Request Queue Length

	Node:	FALCO	N	HAWK		OSPREY	Z
	From:	17-SEP-1986		17-SEP-1986	14:26	17-SEP-1986	Contraction of the second s
	To:	17-SEP-1986		17-SEP-1986	15:21	17-SEP-1986	15:23
\$2\$DRB0:	MSAO	017	0.26		0.00		0.00
\$2\$DRB2:	MSAO	004	2.07		1.67		0.21
\$2\$DRB4:	MSAO	026	0.48		0.01		0.00
\$2\$DRB5:	MSAO	035	0.13		0.00		0.08
\$2\$DRB7:	MSAO	011	0.01		0.00		0.00
\$2\$DRDO:	MSAO	044	0.01		0.01		0.27
SISDRAO:	MSAO	014	0.00		0.00		0.00
SISDRA1:	MSAO	034	0.00		0.00		0.01
S1SDRA2:	MSAO	021	0.00		0.09		0.01
\$1\$DRA3:	MSAO	008	0.00		0.00		0.00
\$1\$DRA4:	MSA0(0.00		0.00		0.00
\$1\$DRA5:	MSAO		0.00		0.00		0.00
\$1\$DRB3:	MSAOC)32	0.00		0.00		0.00
\$1\$DRB4:	MSAOC		0.00		0.09		0.00
\$1\$DRB6:	MSAOC)33	0.01		0.01		0.00
\$2\$DRA0:	MSAOC	03	0.00		0.00		0.00
\$2\$DRA4:	MSAOO)29	0.00		0.00		0.00
\$2\$DRA6:	MSA00	030	0.00		0.00		0.00
\$2\$DRC0:	MSA00)36	0.04		0.45		0.72
\$2\$DRC1:	MSAOC)37	0.00		0.00		0.00
\$2\$DRC2:	MSAOC	042	0.00		0.00		0.00
\$2\$DRC3:	MSAOO)41	0.00		0.01		0.00
\$2\$DRD2:	MSA00)46	0.00		0.21		0.47
\$2\$DRD4:	MSAOO)47	0.00		0.01		0.00
\$2\$DRD5:	MSAOO)48	0.00		0.03		0.03
\$2\$DRD7:	MSAOO)43	0.34		0.00		0.04
\$2\$DRB1:	SCRAT	CH	0.04		0.00		0.00
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+----+ VAX/VMS Monitor Utility | AVE | FILE PRIMITIVE STATISTICS +----+ MULTI-FILE SUMMARY

	Node: From: To:	FALCON 17-SEP-1986 14:2 17-SEP-1986 15:2		OSPREY 4:26 17-SEP-1986 14:14 5:21 17-SEP-1986 15:23	
FCP Call Rat Allocation R Create Rate		1.7 0.2 0.0	BO	3.51 3.12 0.51 0.55 0.10 0.12	3
Disk Read Ra Disk Write R Volume Lock	ate	0.4 0.6 ate 0.0	1 1	3.01 11.00 18 0.97 0.00 0.00	7
CPU Tick Rat File Sys Pag Window Turn	e Faul	2.6 t Rate 0.4 0.0	4 0	5.621.570.190.260.182.02	6
File Lookup File Open Ra Erase Rate		0.6 0.4 0.0	в О	50 0.95 0.66 0.82 0.00 0.00	2

- FCP Call Rate—Rate of QIO requests received by the file system
 - Allocation Rate-Rate of calls that caused allocation of disk space
- Create Rate-Rate at which new files were created
- Disk Read Rate—Rate of read I/O operations from disk by the file system
- Disk Write Rate—Rate of write I/O operations to disk by the file system
- Volume Lock Wait Rate—Rate of entry into a wait state due to contention for a volume synchronization lock. Volume synchronization locks are taken out by the XQP during file creation, deletion, extension, and truncation operations.
- CPU Tick Rate—Rate at which CPU time was used by the file system (in 10-millisecond ticks)
- File System Page Fault Rate—Rate at which page faults occurred in the file system
- Window Turn Rate—Rate of file-mapping window misses
- File Lookup Rate—Rate of filename look-up operations in file directories
- File Open Rate—Rate at which files were opened
- Erase Rate—Rate of erase operations issued by the file system

++	VAX/VMS Monitor Utility
AVE	FILE SYSTEM CACHING STATISTICS
++	MULTI-FILE SUMMARY

	Node: FALCO		HAWK	OSPREY 17-SEP-1986 14:14
	From: 17-SEP-1986 To: 17-SEP-1986		17-SEP-1986 14:26 17-SEP-1986 15:21	17-SEP-1986 15:23
Dir FCB	(Hit %)	88.01	93.86	36.71 1.03
Dir Data	(Attempt Rate) (Hit %)	0.64 89.04	1.58 62.62	3.96
	(Attempt Rate)	1.21	7.00 83.66	9.48 53.27
File Hdr	(Hit %) (Attempt Rate)	1.60	2.44	4.75
File ID	(Hit %) (Attempt Rate)	98.97 0.05	99.20 0.11	· 99.67 0.14
	(Attempt Rate)			
Extent	(Hit %) (Attempt Rate)	96.28 0.49	98.66	96.53 1.00
Quota	(Hit %)	0.00	66.66 0.00	0.00
Bitmap	(Attempt Rate) (Hit %)	0.00 84.28	31.25	8.10
•	(Attempt Rate)	0.02	0.01	0.02

 Directory FCB Hit%—Percentage of directory file control block hits on the Directory Cache. The percentage value shown is the ratio of hits to the sum of hits plus misses.

- Directory FCB Attempt Rate—Rate at which attempts were made to find directory file control blocks in the Directory Cache.
- Directory Data Hit%—Percentage of directory data hits on the Directory Cache. The percentage value shown is the ratio of hits to the sum of hits plus misses.
- Directory Data Attempt Rate—Rate at which attempts were made to find directory data in the Directory Cache.
- File Header Hit%—Percentage of file header hits on the File Header Cache. The percentage value shown is the ratio of hits to the sum of hits plus misses.
- File Header Attempt Rate—Rate at which attempts were made to find file headers in the File Header Cache.
- File ID Hit%—Percentage of file identifier hits on the File ID Cache. The
 percentage value shown is the ratio of hits to the sum of hits plus misses.
- File ID Cache Attempt Rate—Rate at which attempts were made to find file identifiers in the File ID Cache.
- Extent Cache Hit%—Percentage of appropriate size extent hits on the Extent Cache. The percentage value shown is the ratio of hits to the sum of hits plus misses.
- Extent Cache Attempt Rate—Rate at which attempts were made to find appropriate size extents in the Extent Cache.
- Quota Cache Hit%—Percentage of quota entry hits on the Quota Cache. The percentage value shown is the ratio of hits to the sum of hits plus misses.
- Quota Cache Attempt Rate—Rate at which attempts were made to find entries in the Quota Cache.
- Bitmap Cache Hit%—Percentage of entry hits on the Bitmap Cache. The
 percentage value shown is the ratio of hits to the sum of hits plus misses.
- Bitmap Cache Attempt Rate—Rate at which attempts were made to find entries in the Bitmap Cache.

+-	AVE Node: From: 1 To: 1	SCS MULTI- FALCON 17-SEP-1986 14:26	onitor Utility STATISTICS FILE SUMMARY HAWK 17-SEP-1986 14:26 17-SEP-1986 15:21	OSPREY 17-SEP-1986 14:14 17-SEP-1986 15:23
Message Send	Rate			
FALCON OSPREY HAWK EAGLE CONDOR		0.00 3.80 14.41 5.86 10.44	18.64 5.13 0.00 3.40 8.66	7.71 0.00 6.77 2.30 5.43
Message Recei	ive Rate	e		
FALCON OSPREY HAWK EAGLE CONDOR		0.00 6.15 18.65 9.75 14.27	14.41 6.65 0.00 3.06 7.99	4.59 0.00 4.99 2.74 3.61
Kbytes Map Ra	ite			
FALCON OSPREY HAWK EAGLE CONDOR		0.00 1.72 14.21 2.04 115.26	14.45 1.66 0.00 0.00 10.11	1.84 0.00 1.79 1.59 0.01

- Message Send Rate—Rate at which sequenced messages are sent to another node. Sequenced messages are exchanged between nodes to communicate with MSCP disks and the lock manager.
- Message Receive Rate—Rate at which sequenced messages are received from another node. Sequenced messages are exchanged between nodes to communicate with MSCP disks and the lock manager.
- Kbytes Map Rate—Rate at which kilobytes are mapped for block transfers. This is a rough measure of the data transfer rate between the local node and a remote node. Before any transfer can take place, a buffer must be mapped. The size of the accumulated buffers that were mapped is displayed by the Kbytes Map Rate. If request datas or send datas are initiated on the local or a remote node, then the Kbytes Map Rate reflects the number of kilobytes actually transferred between the two nodes.

++	VAX/VMS	Monitor Utility
AVE	TIME IN	PROCESSOR MODES
+====+	MULT	I-FILE SUMMARY

	Node: From: To:	FALCON 17-SEP-1986 14:26 17-SEP-1986 15:21	HANK 17-SEP-1986 14:26 17-SEP-1986 15:21	OSPREY 17-SEP-1986 14:14 17-SEP-1986 15:23
Interrupt Sta	ck	19.29	9.68	3.52
Kernel Mode		22.33	23.11	6.72
Executive Mode		6.80	11.67	3.68
Supervisor Mo	de	2.82	1.43	0.66
User Mode		44.22	21.38	9.23
Compatibility	Mode	0.94	1.52	0.60
Idle Time		3.56	31.17	75.56

- Interrupt Stack—Time spent on the interrupt stack
- Kernel Mode—Time spent in kernel mode, but not on interrupt stack
- Executive Mode—Time spent in executive mode
- Supervisor Mode—Time spent in supervisor mode
- User Mode—Time spent in user mode executing VAX instructions
- Compatibility Mode—Time spent executing compatibility-mode instructions
- Idle Time—Time spent executing the NULL process

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+----+ VAX/VMS Monitor Utility | AVE | PROCESS STATES +----+ MULTI-FILE SUMMARY

	CON	HAWK	OSPREY
From: 17-SEP-19	86 14:26	17-SEP-1986 14:26	17-SEP-1986 14:14
To: 17-SEP-19	86 15:21	17-SEP-1986 15:21	17-SEP-1986 15:23
Collided Page Wait	0.00	0.00	0.00
Mutex & Misc Resource Wait	0.00	0.00	0.00
Common Event Flag Wait	0.00	0.00	0.00
Page Fault Wait	0.09	0.07	0.08
Local Event Flag Wait	17.32	23.92	20.27
Local Evt Flg (Outswapped)	0.00	0.00	0.00
Hibernate	11.56	11.72	11.01
Hibernate (Outswapped)	0.00	0.00	0.00
Suspended	0.00	0.00	0.00
Suspended (Outswapped)	0.00	0.00	0.00
Free Page Wait	0.00	0.00	0.00
Compute	5.70	3.01	1.61
Compute (Outswapped)	0.00	0.00	0.00
Current Process	0.98	0.98	1.00

- Collided Page Wait (COLPG)—Waiting for a faulted page in transition
- Mutex and Miscellaneous Resource Wait (MWAIT)—Waiting for the availability of a mutual exclusion semaphore or a dynamic resource.
- Common Event Flag Wait (CEF)—Waiting for some combination of event flags to be set in a common event block
- Page Fault Wait (PFW)—Waiting for a page to be read as a result of a page fault; resident processes
- Local Event Flag Wait (LEF)—Waiting for one or more local event flags to be posted; resident processes
- Local Event Flag (Outswapped) (LEFO)—Waiting for one or more local event flags to be posted; outswapped processes
- Hibernate (HIB)—Hibernating, or process has executed a hibernate request; resident processes
- Hibernate (Outswapped) (HIBO)—Hibernating, or process has executed a hibernate request; outswapped processes
- Suspended (SUSP)—Process has executed a suspend request; resident processes
- Suspended (Outswapped) (SUSPO)—Process has executed a suspend request; outswapped processes
- Free Page Wait (FPW)—Waiting for a free page of memory
- Compute (COM)—Ready to use the processor; resident processes
- Compute (Outswapped) (COMO)—Ready to use the processor; outswapped processes
- Current Process (CUR)—Using the processor

++	VAX/VMS Monitor Utility
AVE	NONPAGED POOL STATISTICS
++	MULTI-FILE SUMMARY

	FALCON	HAWK	OSPREY
	17-SEP-1986 14:26	17-SEP-1986 14:26	17-SEP-1986 14:14
	17-SEP-1986 15:21	17-SEP-1986 15:21	17-SEP-1986 15:23
SRPs Available	258.41	198.87	2055.60
SRPs In Use	2264.85	1601.85	944.39
IRPs Available	208.49	99.83	305.39
IRPs In Use	.773.30	757.29	994.58
LRPs Available	90.07	12.12	17.95
LRPs In Use	17.92	14.38	14.04
Dynamic Bytes Avail Dynamic Bytes In Us Holes In Pool Largest Block Smallest Block Blocks Less or Eq 33	e 452139.93 65.30 9805.67 15.70	38390.39 429614.84 60.25 12347.34 15.70 11.61	127055.76 522672.25 53.17 110286.82 16.00 8.48

- SRPs Available—Number of small request packets available in the SRP queue
- SRPs In Use—Number of small request packets available in use
- IRPs Available—Number of intermediate request packets available in the IRP queue
- IRPs In Use—Number of intermediate request packets available in use
- LRPs Available— Number of large request packets available in the LRP queue
- LRPs In Use—Number of large request packets in use
- Dynamic Bytes Available—Number of dynamic bytes available
- Dynamic Bytes In Use—Number of dynamic bytes in use
- Holes In Pool—Unused blocks of contiguous space in the dynamically allocated portion of the pool
- Largest Block—Size in bytes of the largest block of unused space in the dynamically allocated portion of the pool
- Smallest Block—Size in bytes of the smallest block of unused space in the dynamically allocated portion of the pool
- Blocks Less or Equal 32 Bytes—Blocks less than or equal to 32 bytes in size in the dynamically allocated portion of the pool