



VTS and 3494 Statistics

ST@S3494 & VTSSTATS



IBM TotalStorage™

3494 Activity Reports (ST@S3494)

- **What it is used for?**
 - **Monitoring 3494 Native and VTS physical library activity**
 - **Determining if contents management is needed**
 - **Doing trend analysis to see when upgrade is needed**

- **What it does.**
 - **Analyzes and reports on SMF 94 data**
 - **Summarizes 3494 activity on hourly and daily basis**
 - **Reports Physical Drive and Robotic Activity for Native, VTS1 and VTS2 logical libraries**
 - **Number of Inputs and Ejects**
 - **Average residency time**
 - **Maximum residency time**
 - **For each logical library**
 - ▶ **Number of drives**
 - ▶ **Number of mounts**
 - ▶ **Average mount time**
 - ▶ **Maximum mount time**

3494 Activity Reports (ST@S3494)

Hourly (3494 with 1 VTS)



ST@S3494 (V99299)
 RUN DATE: 10APR2000 11:16:56

3494 TAPE LIBRARY STATISTICS
 HOURLY DETAIL REPORT

123 CORPORATION - 9000 S. RITA ROAD

GROUP= C3VTS -----LIBMGR REF. HOUR=02, MVS TIME= 01:19:29-----R99.1

3494= 12288 VTS1= 60144 VTS2=

DATE= 01MAR2000

				LIBRARY									NATIVE	VTS1			VTS2		
# DRIVES				RESDNCY	MOUNTS			EJECTS			INPUTS	MOUNTS	PHYS	MOUNTS	PHYS	MOUNTS	PHYS		
				TIME	SECONDS			SECONDS					SECONDS		SECONDS				
HOUR	NATV	VTS1	VTS2	MAX	AVG	TOT	MAX	AVG	TOT	MAX	AVG	TOT	TOT	TOT	MAX	AVG	TOT	MAX	AVG
smf94=>		(vti)	(vti)	(lt1)	(lt3)	(mto)	(mt1)	(mt3)	(eto)	(et1)	(et3)	(ins)			(vmx)	(vmv)		(vmx)	(vmv)
00	8	4	0	973	455	16	67	39	0	0	0	0	11	5	67	42	0	0	0
01	8	4	0	2417	719	18	78	41	0	0	0	0	10	8	53	43	0	0	0
02	8	4	0	7734	1426	19	99	47	0	0	0	0	11	8	68	47	0	0	0
03	8	4	0	3390	677	15	71	43	0	0	0	0	11	4	40	30	0	0	0
04	8	4	0	3631	630	18	81	50	0	0	0	0	15	3	81	65	0	0	0
05	8	4	0	2597	736	15	101	43	0	0	0	0	9	6	51	37	0	0	0
06	8	4	0	6993	1595	10	94	41	0	0	0	0	6	4	44	35	0	0	0
07	8	4	0	1216	362	34	214	49	0	0	0	0	14	20	214	62	0	0	0
08	8	4	0	11999	729	42	113	54	0	0	0	0	25	17	98	70	0	0	0
09	8	4	0	4136	419	31	89	40	0	0	0	0	23	8	79	54	0	0	0
10	8	4	0	4737	669	16	60	35	0	0	0	0	14	2	35	34	0	0	0
11	8	4	0	2364	498	14	80	39	0	0	0	0	12	2	36	36	0	0	0
12	8	4	0	4347	858	15	71	39	0	0	0	0	13	2	63	62	0	0	0
13	8	4	0	4392	1018	19	67	40	0	0	0	0	13	6	45	45	0	0	0
14	8	4	0	6514	970	25	60	40	0	0	0	38	11	14	60	46	0	0	0
15	8	4	0	3037	453	25	74	42	0	0	0	0	11	14	74	46	0	0	0
16	8	4	0	3618	631	11	58	37	0	0	0	0	6	5	43	31	0	0	0
17	8	4	0	2631	726	5	61	39	0	0	0	0	4	1	61	61	0	0	0
18	8	4	0	934	347	10	58	36	1	17	17	1	4	6	58	45	0	0	0
19	8	4	0	1956	751	13	67	38	0	0	0	0	5	8	67	43	0	0	0
20	8	4	0	1759	539	10	106	64	0	0	0	0	6	4	70	42	0	0	0
21	8	4	0	3500	760	8	75	47	0	0	0	0	7	1	32	32	0	0	0
22	8	4	0	1103	343	7	58	44	0	0	0	0	5	2	38	37	0	0	0
23	8	4	0	3102	760	15	70	43	0	0	0	0	11	4	41	41	0	0	0
TOT				11999	696	411	214	43	1	17	17	39	257	154	214	49	0	0	0

3494 Activity Reports (ST@S3494) Daily (3494 with 1 VTS)



ST@S3494 (V99299)

3494 TAPE LIBRARY STATISTICS

RUN DATE: 10APR2000 11:16:56

DAILY SUMMARY REPORT

123 CORPORATION - 9000 S. RITA ROAD

GROUP= C3VTS -----LIBMGR REF. HOUR=01, MVS TIME= 00:19:16-----R99.1

3494= 12288 VTS1= 60144 VTS2=

DATE= 29FEB2000

DATE	# DRIVES (MAX)			LIBRARY									NATIVE	VTS1			VTS2		
	NATV	VTS1	VTS2	RESDNCY		MOUNTS			EJECTS			INPUTS	MOUNTS	PHYS MOUNTS			PHYS MOUNTS		
				TIME	SECONDS	TOT	MAX	AVG	TOT	MAX	AVG	TOT		TOT	MAX	AVG	TOT	MAX	AVG
smf94=>	(vti)	(vti)		(lt1)	(lt3)	(mto)	(mt1)	(mt3)	(eto)	(et1)	(et3)	(ins)		(vmx)	(vmv)		(vmx)	(vmv)	
29FEB	8	4	0	3001	727	14	48	35	0	0	0	0	10	4	42	37	0	0	0
01MAR	8	4	0	11999	696	411	214	43	1	17	17	39	257	154	214	49	0	0	0
02MAR	8	4	0	9292	695	367	242	42	1	17	17	0	270	97	242	42	0	0	0
03MAR	8	4	0	8912	712	372	233	40	0	0	0	0	239	133	233	41	0	0	0
04MAR	8	4	0	9811	1008	239	111	43	0	0	0	0	138	101	72	39	0	0	0
05MAR	8	4	0	1759	298	42	86	47	0	0	0	0	29	13	68	44	0	0	0
06MAR	8	4	0	10302	720	327	94	41	0	0	0	0	220	107	66	38	0	0	0
07MAR	8	4	0	12289	711	409	257	46	0	0	0	0	285	124	74	38	0	0	0
08MAR	8	4	0	11070	783	302	114	42	0	0	0	0	199*	106	81	39	0	0	0
09MAR	8	4	0	11271	844	328	140	40	1	18	18	0	201	127	69	40	0	0	0
...																			
...																			
...																			
27MAR	8	4	0	9201	753	308	103	40	0	0	0	0	214	94	63	37	0	0	0
28MAR	8	4	0	13237	650	473	218	43	0	0	0	0	348	125	218	40	0	0	0
29MAR	8	4	0	10822	887	294	116	41	0	0	0	0	175	119	62	37	0	0	0
30MAR	8	4	0	10857	829	354	140	41	1	17	17	0	212	142	84	41	0	0	0
31MAR	8	4	0	25051	841	344	275	42	0	0	0	2	232	112	83	39	0	0	0
01APR	8	4	0	13006	918	275	135	43	0	0	0	0	157	118	71	40	0	0	0
02APR	8	4	0	2805	608	74	78	44	0	0	0	0	26	48	78	45	0	0	0
03APR	8	4	0	10917	849	288	135	43	0	0	0	0	196	92	77	41	0	0	0
04APR	8	4	0	6225	983	37	115	47	0	0	0	0	28	9	45	35	0	0	0

* INCONSISTENT DATA FOUND WHILE CALCULATING NATIVE MOUNTS.
PROBABLE TIMING DIFFERENCE IN LOGGING 3494 VS. VTS MOUNTS.



VTS Activity Reports (VTSSTATS)

- **What it is used for?**
 - **Monitoring VTS Drive and Tape Volume Cache (TVC) activity**
 - **Determining if contents management is needed**
 - **Doing trend analysis to see when upgrade is needed**
- **What it does.**
 - **Analyzes and reports on SMF 94 data**
 - **Summarizes VTS activity on hourly and daily basis**
 - **Reports Virtual Drive Activity**
 - **Number of drives allocated**
 - **Number of mounts (Fast ready, read hits, read misses)**
 - **Reports Physical Drive Activity**
 - **Number of drives allocated**
 - **Mounts for recall, copy, reclaim, and secure data erase**
 - **Tape Volume Cache Activity**
 - **MBs read and written to TVC**
 - **MBs read and written to physical tape**
 - **Virtual volume size**
 - **Logical volumes managed**

Enhanced VTS Activity Reports (VTSSTATS)



- **Additional information in SMF 94**
 - **Recall and write overrun statistics**
 - Percentage of throttling and average throttle value
 - **Number of Scratch Stacked Volumes (available cartridge storage)**
 - **Number of Stacked Private Volumes (cartridges containing active data)**
 - **Active cartridge data distribution**
 - 20 values with number of volumes with 0-5%, 5-10%, etc. of active data
 - Reclaim threshold
 - **Min/Max/Avg mount times for Fast-Ready, Read Hits and Read Misses**
 - **Compression ratio achieved in the host adapter cards**
 - **Compression ratio achieved between TVC and Drive**
 - **Block sizes of data written to VTS**
 - Average channel block size
 - Number of blocks written
 - Distribution of block sizes
 - ▶ 0 to 2K, 2K to 4K, 4K to 8K, 8K to 16K,
 - ▶ 16K to 32K, 32K to 64K, greater than 64K

Enhanced VTS Activity Reports (VTSSTATS)



Answering these five questions represents a good approach to evaluating the overall performance of the VTS:

1. Is your “daily Average virtual volume mount time” greater than 30 seconds?
2. Do you have any hourly “Max virtual mounts” greater than 300 seconds or any hourly “Average virtual mounts” greater than 30 seconds?
3. Are the hourly % mounts not satisfied in TVC greater than 20%?
4. How much data is my VTS managing and how much more data can it store before it becomes full?
5. Is performance constrained by the number of drives available?

The customer should also be familiar with the performance white paper applicable to the model VTS they have installed. The white papers are on Techdocs:

<http://www-03.ibm.com/support/techdocs/atsmastr.nsf/Web/TechDocs>

Search on "VTS performance"



(VTSSTATS) - Control cards

```
*****
*           FILL IN THE FOLLOWING RECORDS AS APPROPRIATE:           *
*****
CUSTOMER= THIS IS RELEASE THREE(3) OF VTSSTATS, BETA;<=CUSTOMER
*EUROFORMAT;
REPORT=    ALL                               ;<=REPORT TYPE
*SDATE=    04DEC2004                          ;<=START DATE OF INPUT
*SHOUR=    00                                 ;<=START HOUR ON INPUT
*EDATE=    04DEC2004                          ;<=END DATE OF INPUT
*EHOUR=    23                                 ;<=END HOUR ON INPUT
*LOGICALDAYSTART= 08                          ;<=2-DIGITS 00-23
**** INCLUDING VTSNUM= STMT(S) WILL SELECT ONLY THOSE VTSS FOR RPRNG
**** OMITTING VTSNUM= STMTS WILL CAUSE ALL VTSS TO BE SELECTED
*VTSNUM=   70689  70695  70809  70810          ;VTS'S
*VTSNUM=   BA001  BA009  BA035  BA055          ;VTS'S
*VTSNUM=   BA040  BA40A  BA40B                ;ONE COMPLIB CONFIG
**** GROUP= STMTS CAUSE NO OPERATIONAL EFFECTS, FOR ID PURPOSE ONLY
*GROUP=   NAME  MODE  3494#  VTS1#   VTS2#    ;<=* PROTOTYPE
*GROUP=  GRP001  VTS  10365  30123   30124    ;<=*
*GROUP=  GRP003  MIX  10397  60185                    ;<==
*GROUP=  GRP003  MIX  10397  60185   60191    ;<==
**** PTPVTS= AND &&PTPVTS= STMTS ARE PAIRED VIA THE NAME ASSIGNED
*PTPVTS=   NAME      3494#                          ;PROTOTYPE
*&&PTPVTS=  NAME      3494#/VTS#   3494#/VTS#      ;PROTOTYPE
PTPVTS=   AVD011    3301A                          ;<=COMPOSITE LIB ID
&&PTPVTS=  AVD011    71629/33010  71622/33011     ;<PEER2PEER PAIRS
/*
//SMFDATA DD DISP=OLD,DSN=CUSTOMER.SMF94.DATA
```




Hourly Virtual Drive Activity

L1/V1= (19123,B2594) L2/V2= (19510,B2706)										VTSSTATS (05221)													
Channels(ES+FI=08 SCSI=00) DRIVES= 8/8										Run Date: 09:04 15AUG2005													
TVC size=0864/0864GB										Data timestamp: 01:01:56													
Logical Day Start hour: 00										LM ref hour: 00													
TITLENAME VTSSTATS																							
Report Date 24MAY2005/01:01(TUE)																							
VTSNUM=11111 *** Peer To Peer VTS***																							
VIRTUALLY VIRTUAL DRIVES VIRTUAL																							
DEVICES CONCUR MOUNTED. MOUNT TOT																							
CONFIG maybe allocated* TIME (SEC) VMTS																							
HOUR MIN AVG MAX AVG MAX																							
smf94=>(vdc) (vdn) (vda) (vdx) (vra)																							
ptpnote: *5 *5 *5 *5 *5																							
00	128	6	12	20	2	17	49	41	1	2	17	8	1	2	3	0	0	0	0	0	2	621	7160
01	128	3	9	18	2	26	178	126	1	2	14	52	1	5	26	0	0	0	0	0	2	262	6861
02	128	6	8	19	4	57	92	59	1	4	57	33	1	5	25	0	0	0	0	0	1	350	7942
03	128	4	8	20	3	74	134	108	1	2	20	26	1	9	74	0	0	0	0	0	4	184	2130
04	128	3	11	23	2	89	94	66	1	2	18	28	1	3	89	0	0	0	0	0	3	488	5646
05	128	2	6	11	2	26	59	48	1	2	14	11	1	4	26	0	0	0	0	0	6	232	1267
06	128	3	5	13	19	229	157	26	1	3	27	21	2	37	229	110	2	20	227	70	4	113	5547
07	128	5	4	10	29	234	118	21	1	2	3	28	1	6	75	69	1	47	234	58	1	84	2018
08	128	5	7	16	21	240	228	24	1	2	3	48	1	2	51	156	4	30	240	68	1	90	1175
09	128	4	9	17	28	190	102	20	1	2	3	27	1	2	4	55	1	51	190	53	1	184	3110
10	128	5	14	25	13	232	245	78	1	2	17	61	1	6	232	106	2	26	230	43	1	175	1644
11	128	5	12	35	15	173	273	57	1	2	5	89	1	3	17	127	2	31	173	46	1	186	7699
12	128	5	13	22	31	375	178	61	1	3	16	26	1	2	10	91	1	60	375	51	3	141	1814
13	128	5	11	22	23	211	64	24	1	2	3	24	1	5	62	16	63	82	211	25	3	465	7339
14	128	5	8	15	5	150	111	55	1	4	59	54	1	3	26	2	95	122	150	1	3	202	2257
15	128	2	7	13	3	89	101	26	1	2	8	75	1	4	89	0	0	0	0	0	1	322	2888
16	128	3	5	11	35	204	53	34	1	3	29	7	1	2	3	12	45	147	204	22	5	159	2589
17	128	3	6	14	6	89	43	30	1	3	12	11	1	4	24	2	75	82	89	4	7	235	2373
18	128	3	6	16	2	78	320	290	1	2	63	30	1	12	78	0	0	0	0	0	4	60	8123
19	128	3	7	18	3	70	218	185	1	3	22	33	1	7	70	0	0	0	0	0	1	126	2288
20	128	4	9	21	5	75	164	110	1	3	63	54	1	11	75	0	0	0	0	0	5	98	1380
21	128	3	10	22	2	24	115	76	1	2	10	38	1	2	24	1	2	2	2	0	2	214	4912
22	128	4	13	26	3	75	178	158	1	2	62	20	1	14	75	0	0	0	0	0	3	209	3174
23	128	4	14	30	2	101	220	142	1	2	63	78	1	4	101	0	0	0	0	0	2	191	3608
DATE							3494	1865				882				747				21			
vdxnote: Since new mounts take priority over dismounts, this field could show a value higher than the number of concurrently ALLOCATED drives from the host view during an hour when there were many mount requests in a short period of time.																							
VTS#							3494	1865				882				747				21			
peer-to-peer notes: *1=Vts1/Vts2, *2=max(V1,V2), *3=min(V1,V2), *4=V1+V2, *5=Complib																							



Hourly Physical Drive Activity - Multiple DEVT

1HOURPHY2 GROUP: DUMMY - HOURLY PHYSICAL DRIVE ACTIVITY VTSNUM=B2594 VTSSTATS(05221)
 TITLENAME VTSSTATS L1/V1= n/a L2/V2= n/a Run Date: 09:04 15AUG2005
 Report Date 24MAY2005/01:01 (TUE) Channels(ES+FI=04 SCSI=00) DRIVES= 8 Data timestamp: 01:01:56
 Logical Day Start hour: 00 DEVICE TYPE= 3590H TVC size=0864GB VTS Code=734.01 LM Code=530.08 LM ref hour: 00

HOUR	--PHYSICAL--		--PHYSICAL DRIVES--			--SECONDS TO MOUNT--			ACCSSOR_MNTS		TOTAL	VIRTUAL				
	INSTALL	AVAIL	MAX	MIN	AVG	MAX	MIN	AVG	-A-	-B-		MNTS	RECALL	COPY	RCLM	SDE
smf94==>	(pdi)	(cafu)	(maxcm)	(mincm)	(avgcm)	(maxttm)	(minttm)	(avgttm)	(aca)	(acb)	(sum)=	(stg)	(mig)	(rec)	(sde)	(vmp)
00	8	8	3	2	2	136	49	49	0	4	3	0	3	0	0	38
01	8	8	4	3	3	64	49	49	0	5	3	0	3	0	0	129
02	8	8	4	4	4	0	0	0	0	0	0	0	0	0	0	47
03	8	8	4	4	4	80	49	49	0	6	6	2	4	0	0	73
04	8	8	3	3	3	60	53	53	0	5	5	1	4	0	0	87
05	8	8	3	2	2	58	52	52	0	4	4	0	4	0	0	55
06	8	8	6	2	3	60	51	51	0	9	9	2	7	0	0	110
07	8	8	5	1	3	78	50	50	0	10	10	7	3	0	0	86
08	8	8	5	4	4	73	50	50	0	4	4	3	1	0	0	98

1HOURPHY2 GROUP: DUMMY - HOURLY PHYSICAL DRIVE ACTIVITY VTSNUM=B2706 VTSSTATS(05221)
 TITLENAME VTSSTATS L1/V1= n/a L2/V2= n/a Run Date: 09:04 15AUG2005
 Report Date 24MAY2005/01:01 (TUE) Channels(ES+FI=04 SCSI=00) DRIVES= 8 Data timestamp: 01:01:56
 Logical Day Start hour: 00 DEVICE TYPE= 3592J TVC size=0864GB VTS Code=734.01 LM Code=530.08 LM ref hour: 00

HOUR	--PHYSICAL--		--PHYSICAL DRIVES--			--SECONDS TO MOUNT--			ACCSSOR_MNTS		TOTAL	VIRTUAL				
	INSTALL	AVAIL	MAX	MIN	AVG	MAX	MIN	AVG	-A-	-B-		MNTS	RECALL	COPY	RCLM	SDE
smf94==>	(pdi)	(cafu)	(maxcm)	(mincm)	(avgcm)	(maxttm)	(minttm)	(avgttm)	(aca)	(acb)	(sum)=	(stg)	(mig)	(rec)	(sde)	(vmp)
00	8	8	1	1	1	299	26	26	2	0	2	0	2	0	0	45
01	8	8	3	1	2	29	28	28	4	0	4	0	4	0	0	122
02	8	8	3	3	3	66	54	54	3	0	3	0	3	0	0	89
03	8	8	3	3	3	25	25	25	1	0	1	0	1	0	0	134
04	8	8	2	2	2	30	27	27	2	0	2	0	2	0	0	82
05	8	8	2	2	2	303	32	32	3	0	3	0	3	0	0	43
06	8	8	2	2	2	300	27	27	2	0	2	0	2	0	0	94
07	8	8	3	1	1	299	25	25	3	0	3	0	3	0	0	140
08	8	8	6	1	3	37	27	27	9	0	9	5	4	0	0	185



Hourly Physical Drive Activity - Composite

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1HOURLPHY2 PTPVTS=PTP1 - HOURLY PHYSICAL DRIVE ACTIVITY VTSNUM=11111 *** Peer To Peer VTS*** VTSSTATS(05221)
TITLENAME VTSSTATS L1/V1= (19123,B2594) L2/V2= (19510,B2706) Run Date: 09:04 15AUG2005
Report Date 24MAY2005/01:01(TUE) Channels(ES+FI=08 SCSI=00) DRIVES= 8/ 8 Data timestamp: 01:01:56
Logical Day Start hour: 00 TVC size=0864/0864GB LM ref hour: 00
  
```

HOUR	--PHYSICAL--		--PHYSICAL DRIVES--			--SECONDS TO MOUNT--			ACCSSOR_MNTS		TOTAL	-----				VIRTUAL
	INSTALL	AVAIL	MAX	MIN	AVG	MAX	MIN	AVG	-A-	-B-		MNTS	RECALL	COPY	RCLM	
smf94==>	(pdi)	(cafu)	(maxcm)	(mincm)	(avgcm)	(maxttm)	(minttm)	(avgttm)	(aca)	(acb)	(sum)=	(stg)	(mig)	(rec)	(sde)	(vmp)
ptpnote:	*1	*1	*1	*1	*1	*2	*3	*2	*4	*4		*4	*4	*4	*4	*4
00	8/ 8	8/ 8	3/ 1	2/ 1	2/ 1	299	26	49	2	4	-	5	0	5	0	83
01	8/ 8	8/ 8	4/ 3	3/ 1	3/ 2	64	28	49	4	5	-	7	0	7	0	251
02	8/ 8	8/ 8	4/ 3	4/ 3	4/ 3	66	0	54	3	0	-	3	0	3	0	136
03	8/ 8	8/ 8	4/ 3	4/ 3	4/ 3	80	25	49	1	6	-	7	2	5	0	207
04	8/ 8	8/ 8	3/ 2	3/ 2	3/ 2	60	27	53	2	5	-	7	1	6	0	169
05	8/ 8	8/ 8	3/ 2	2/ 2	2/ 2	303	32	52	3	4	-	7	0	7	0	98
06	8/ 8	8/ 8	6/ 2	2/ 2	3/ 2	300	27	51	2	9	-	11	2	9	0	204
07	8/ 8	8/ 8	5/ 3	1/ 1	3/ 1	299	25	50	3	10	-	13	7	6	0	226
08	8/ 8	8/ 8	5/ 6	4/ 1	4/ 3	73	27	50	9	4	-	13	8	5	0	283
09	8/ 8	8/ 8	4/ 4	1/ 1	2/ 2	68	25	53	4	10	-	13	7	6	0	126
10	8/ 8	8/ 8	7/ 6	2/ 1	4/ 3	122	27	53	8	9	-	17	9	8	0	324
11	8/ 8	8/ 8	6/ 6	2/ 1	4/ 3	62	28	51	6	8	-	14	13	1	0	335
12	8/ 8	8/ 8	8/ 6	3/ 2	6/ 3	304	27	52	7	19	-	26	21	5	0	262
13	8/ 8	8/ 8	5/ 6	1/ 0	2/ 2	54	26	51	4	4	-	8	3	5	0	133
14	8/ 8	8/ 8	5/ 4	1/ 0	1/ 1	96	26	52	4	7	-	11	2	9	0	119
15	8/ 8	8/ 8	5/ 4	0/ 4	1/ 4	52	26	50	2	3	-	5	0	5	0	45
16	8/ 8	8/ 8	8/ 3	2/ 0	5/ 1	88	27	51	6	15	-	21	14	7	0	55
17	8/ 8	8/ 8	7/ 1	2/ 0	4/ 1	138	27	129	2	19	-	6	0	3	3	31
18	8/ 8	8/ 8	2/ 1	1/ 0	1/ 1	55	25	50	2	4	-	6	1	5	0	466
19	8/ 8	8/ 8	4/ 3	1/ 1	1/ 1	68	26	52	5	7	-	11	3	8	0	404
20	8/ 8	8/ 8	4/ 3	2/ 3	2/ 3	116	27	50	1	8	-	3	0	3	0	211
21	8/ 8	8/ 8	3/ 2	3/ 2	3/ 2	56	27	52	2	12	-	6	0	6	0	155
22	8/ 8	8/ 8	4/ 3	3/ 1	3/ 1	55	27	51	4	9	-	10	1	9	0	254
23	8/ 8	8/ 8	6/ 4	4/ 3	4/ 3	56	29	51	1	3	-	4	0	4	0	369
DATE												234	94	137	3	0
VTSNUM												234	94	137	3	0

peer-to-peer notes: *1=Vts1/Vts2, *2=max(V1,V2), *3=min(V1,V2), *4=V1+V2, *5=Complib



Hourly Tape Volume Cache Activity

LHOURCACH PTPVTS=PTP1 - HOURLY TAPE VOLUME CACHE ACTIVITY VTSNUM=11111 *** Peer To Peer VTS***
 TITLENAME VTSSTATS L1/V1= (19123,B2594) L2/V2= (19510,B2706) Run Date: 09:04 15AUG2005
 Report Date 24MAY2005/01:01(TUE) Channels(ES+FI=08 SCSI=00) DRIVES= 8/8 Data timestamp: 01:01:56
 Logical Day Start hour: 00 TVC size=0864/0864GB LM ref hour: 00

HOUR TO CACHE	MBYTES	MBYTES	CHAN	MBYTES	MBYTES	MBYTES	AVG MIN	MAX MIN	----- VIRTUAL VOLUMES -----				--STACKED--		PHY TAPE	CAPACITY
	WRITTEN	RD FROM	MB PER	WRITTEN	WRITTEN	RD FROM	VIRT VOL	VV IN	AVG SZ	#IN	AVG SZ	MANAGED	VOLUME_CNT	USED	AVAIL	
smf94==>(vbw)	(vbr)	SECOND	TO PRIM	TO SECD	PHYSICAL	IN CACHE	CACHE	ALL(MB)	CACHE	IN CAC	BY VTS	PRI	SCR	(GB)	(GB)	
ptpnote: *5	*5		(ppwrit)	(spwrit)	(vtr)	(vca)	(mtvca)	(calc)	(vvic)	(vcz)	(vla)	(prict)	(srtct)	(vba)	(vec)	
			*4	*4	*2	*2	*2		*4	*5	*1	*1	*1	*1	*1	
00	58394	14055	20.12	35279	0	na	na	63304	219	4227	387 150K/58K	842/ 65	496/ 55	31T/15T	57T/16T	
01	161633	48060	58.24	136729	0	na	na	63364	220	4106	399 151K/58K	842/ 65	496/ 55	31T/15T	57T/16T	
02	44001	46066	25.01	47542	0	na	na	63424	220	4030	408 151K/58K	843/ 65	495/ 55	31T/15T	57T/16T	
03	54541	32682	24.22	42162	0	na	na	63484	220	4058	403 151K/58K	844/ 65	494/ 55	31T/15T	57T/16T	
04	64160	42066	29.50	45294	0	na	na	63544	220	4123	400 151K/59K	844/ 65	494/ 55	31T/15T	57T/16T	
05	42093	20383	17.35	39597	0	na	na	63604	220	4128	401 151K/59K	845/ 65	493/ 55	31T/15T	56T/16T	
06	18547	18921	10.40	44231	0	na	na	63664	220	4186	396 151K/59K	845/ 65	493/ 55	31T/15T	56T/16T	
07	2164	36801	10.82	54643	0	na	na	63724	220	4276	384 151K/59K	845/ 65	493/ 55	31T/15T	56T/16T	
08	10102	88265	27.32	54881	0	na	na	63784	220	4383	380 151K/59K	845/ 66	493/ 54	31T/15T	56T/16T	
09	4505	38955	12.07	42823	0	na	na	63844	220	4365	381 151K/59K	846/ 66	492/ 54	31T/15T	56T/16T	
10	148775	60534	58.14	104293	0	na	na	63904	220	4445	379 151K/59K	846/ 66	492/ 54	31T/15T	56T/16T	
11	41407	117381	44.10	57457	0	na	na	63964	220	4633	367 151K/59K	846/ 66	492/ 54	31T/15T	56T/16T	
12	50663	27720	21.77	73909	0	na	na	64024	220	4678	365 151K/60K	846/ 66	492/ 54	31T/15T	56T/16T	
13	30091	23396	14.85	54594	0	na	na	64084	220	4660	368 151K/60K	846/ 66	492/ 54	31T/15T	56T/16T	
14	9343	42670	14.44	12833	0	na	na	64144	221	4709	362 151K/60K	846/ 66	492/ 54	31T/15T	56T/16T	
15	8785	102693	30.96	8437	0	na	na	64204	221	4693	359 151K/60K	846/ 66	492/ 54	31T/15T	56T/16T	
16	4781	33591	10.65	9370	0	na	na	64264	221	4560	357 150K/59K	846/ 66	492/ 54	31T/15T	56T/16T	
17	8041	12220	5.62	5133	0	na	na	64324	221	4555	359 150K/59K	844/ 66	494/ 54	31T/15T	57T/16T	
18	8121	2497	2.94	18118	0	na	na	64384	220	4842	340 150K/60K	845/ 66	493/ 54	31T/15T	56T/16T	
19	53461	13712	18.65	37632	0	na	na	64444	220	4995	332 151K/60K	845/ 66	493/ 54	31T/15T	56T/16T	
20	41848	28852	19.63	25726	0	na	na	64504	220	5052	331 151K/60K	845/ 66	493/ 54	31T/15T	56T/16T	
21	41435	43126	23.48	26130	0	na	na	64564	220	5044	328 151K/60K	845/ 66	493/ 54	31T/15T	56T/16T	
22	153852	18570	47.89	71827	0	na	na	64624	220	5079	326 151K/60K	846/ 66	492/ 54	31T/15T	56T/16T	
23	160907	69244	63.93	141530	0	na	na	64684	220	4863	342 151K/60K	847/ 66	491/ 54	31T/15T	56T/16T	

DATE 1221650 982460 1190170 0 na
 VTS# 1221650 982460 1190170 0 na

peer-to-peer notes: *1=Vts1/Vts2, *2=max(V1,V2), *3=min(V1,V2), *4=V1+V2, *5=Complib



Hourly Import - Export Activity

1HOURIMEX GROUP: DUMMY - HOURLY IMPORT - EXPORT ACTIVITY VTSNUM=70287 VTSSTATS(05080)
 TITLENAME VTSSTATS L1/V1= n/a L2/V2= n/a Run Date: 14:51 22MAR2005
 Report Date 28FEB2005/01:01(MON) Channels(ES+FI=04 SCSI=00) DRIVES=12 Data timestamp: 01:01:43
 Logical Day Start hour: 00 TVC size=1728GB VTS Code=731.04 LM Code=530.08 LM ref hour: 01

HR	PHYSICAL	LOGICAL	TOTAL	MB MOVED	PHYSICAL	LOGICAL	TOTAL	MB MOVED
	VOLUMES	VOLUMES	MBYTES	STACKED	VOLUMES	VOLUMES	MBYTES	STACKED
smf94==>(im1)	(im2)	(im3)	(im4)	(ex1)	(ex2)	(ex3)	(ex4)	
00	0	0	0	0	0	0	0	0
01	0	0	0	0	0	0	0	0
02	0	0	0	0	0	0	0	0
03	0	0	0	0	0	0	0	0
04	0	0	0	0	0	0	0	0
05	0	0	0	0	0	0	0	0
06	0	0	0	0	0	0	0	0
07	0	0	0	0	0	0	0	0
08	0	0	0	0	0	0	0	0
09	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0
DATE	0	0	0	0	0	0	0	0
VTS#	0	0	0	0	0	0	0	0

**USE //HOURIMEX DD DUMMY
to suppress this report**



Hourly Performance Indicators (distributed VTS)

1HOURPERF GROUP: DUMMY - HOURLY PERFORMANCE INDICATORS

VTSNUM=B2706

VTSSTATS(05221)

TITLENAME VTSSTATS

L1/V1= n/a

L2/V2= n/a

Run Date: 09:04 15AUG2005

Report Date 24MAY2005/01:01(TUE)

Channels(ES+FI=04 SCSI=00) DRIVES= 8

Data timestamp: 01:01:56

Logical Day Start hour: 00

TVC size=0864GB

VTS Code=734.01 LM Code=530.08 LM ref hour: 00

----- PERCENTAGE OF BLOCKS WRITTEN FOR EACH BLOCKSIZE -----									-- T H R O T T L I N G --								
O VTS or composite are uncompressed, distributed are compressed									CALC		-- COMP RATIOS --		PERCENT		AVG_VALUE		mSEC
U	<=2K	<=4K	<=8K	<=16K	<=32K	<=64K	>64K	TOTAL	AVG	BLKSZ	CACHE	BACKSTORE	RC	WR	RC	WR	HR
R	<=2K	<=4K	<=8K	<=16K	<=32K	<=64K	>64K	TOTAL	BLKSZ	CACHE	BACKSTORE	RC	WR	RC	WR	HR	HR
s94==>	0kb	2kb	4kb	8kb	16kb	32kb	64kb	numbs	harat	bsrat	rcprt	wrovt	avrct	avwt	total		
00	0	25	16	31	28	0	0	2233230	11000	na	0.98	0	0	0	0	0	
01	0	11	27	41	20	0	0	5051654	11000	na	0.98	0	0	0	0	0	
02	0	5	17	63	15	0	0	1299914	12000	na	0.98	0	0	0	0	0	
03	0	1	12	52	34	0	0	835616	15000	na	0.98	0	0	0	0	0	
04	0	4	21	66	8	0	0	901688	11000	na	0.98	0	0	0	0	0	
05	0	0	20	71	8	0	0	412275	11000	na	0.98	0	0	0	0	0	
06	0	0	16	83	1	0	0	356596	11000	na	0.98	0	0	0	0	0	
07	19	1	11	69	1	0	0	41897	9000	na	0.98	0	0	0	0	0	
08	1	1	7	86	5	0	0	118951	11000	na	0.98	0	0	0	0	0	
09	0	0	13	58	29	0	0	130634	14000	na	0.98	0	0	0	0	0	
10	0	0	25	75	0	0	0	2628619	10000	na	0.98	0	0	0	0	0	
11	0	36	50	11	3	0	0	835932	5000	na	0.98	0	0	0	0	0	
12	0	52	25	12	11	0	0	1266062	6000	na	0.98	0	0	0	0	0	
13	0	45	29	10	16	0	0	347846	7000	na	0.98	0	0	0	0	0	
14	7	11	11	36	35	0	0	186299	13000	na	0.98	0	0	0	0	0	
15	0	0	0	7	93	0	0	66984	23000	na	0.98	0	0	0	0	0	
16	0	0	2	78	19	0	0	74496	14000	na	0.98	0	0	0	0	0	
17	3	1	40	13	42	0	0	136667	14000	na	0.98	0	0	0	0	0	
18	34	31	3	4	28	0	0	124893	8000	na	0.98	0	0	0	0	0	
19	0	2	20	62	16	0	0	1027832	12000	na	0.98	0	0	0	0	0	
20	0	9	38	45	7	0	0	769227	9000	na	0.98	0	0	0	0	0	
21	0	47	19	32	2	0	0	832496	6000	na	0.98	0	0	0	0	0	
22	18	12	30	26	14	0	0	2424539	8000	na	0.98	0	0	0	0	0	
23	0	8	30	48	13	0	0	2591903	10000	na	0.98	0	0	0	0	0	



Hourly Performance Indicators (composite VTS)

1HOURLPERF PTPVTS=PTP1 - HOURLY PERFORMANCE INDICATORS

VTSNUM=11111 *** Peer To Peer VTS***

VTSSTATS(05221)

TITLENAME VTSSTATS

L1/V1= (19123,B2594) L2/V2= (19510,B2706)

Run Date: 09:04 15AUG2005

Report Date 24MAY2005/01:01(TUE)

Channels(ES+FI=08 SCSI=00) DRIVES= 8/8

Data timestamp: 01:01:56

Logical Day Start hour: 00

TVC size=0864/0864GB

LM ref hour: 00

----- PERCENTAGE OF BLOCKS WRITTEN FOR EACH BLOCKSIZE -----									-- T H R O T T L I N G --								
O VTS or composite are uncompressed, distributed are compressed									CALC		-- COMP RATIOS --		PERCENT		AVG_VALUE		mSEC
U	<=2K	<=4K	<=8K	<=16K	<=32K	<=64K	>64K	TOTAL	AVG	BLKSZ	CACHE	BACKSTORE	RC	WR	RC	WR	HR
R	<=2K	<=4K	<=8K	<=16K	<=32K	<=64K	>64K	TOTAL	BLKSZ	harat	bsrat	rcprt	wrovt	avrct	avwot	total	
s94=>	0kb	2kb	4kb	8kb	16kb	32kb	64kb	numbs									
ptpnote:	*5	*5	*5	*5	*5	*5	*5	*5		*5	*1	*2	*2	*2	*2	*2	
00	0	0	0	0	100	0	0	2111117	24000	2.43	1.91/0.98	0	0	0	0	0	
01	0	0	0	0	100	0	0	5829383	24000	2.55	1.91/0.98	0	0	0	0	0	
02	0	0	0	7	93	0	0	1647657	23000	2.50	1.91/0.98	0	0	0	0	0	
03	0	0	0	0	100	0	0	1954370	24000	2.27	1.91/0.98	0	0	0	0	0	
04	0	1	0	0	99	0	0	2275271	23000	3.23	1.91/0.98	0	0	0	0	0	
05	0	0	0	21	79	0	0	1782532	21000	1.99	1.91/0.98	0	0	0	0	0	
06	0	0	0	0	100	0	0	613468	24000	2.90	1.91/0.98	0	0	0	0	0	
07	0	0	16	0	84	0	0	92097	21000	2.63	1.91/0.98	0	0	0	0	0	
08	0	0	0	0	99	0	0	341204	23000	1.92	1.91/0.98	0	0	0	0	0	
09	0	0	0	0	100	0	0	159436	24000	1.54	1.91/0.98	0	0	0	0	0	
10	0	0	0	0	100	0	0	4799287	24000	3.83	1.91/0.98	0	0	0	0	0	
11	0	0	1	0	99	0	0	1383832	23000	3.47	1.91/0.98	0	0	0	0	0	
12	0	0	31	0	69	0	0	2211078	18000	3.39	1.91/0.98	0	0	0	0	0	
13	0	0	34	0	66	0	0	1379626	17000	2.90	1.91/0.98	0	0	0	0	0	
14	0	0	31	0	69	0	0	439424	18000	1.81	1.91/0.98	0	0	0	0	0	
15	0	0	0	0	100	0	0	292343	24000	1.66	1.91/0.98	0	0	0	0	0	
16	0	0	0	0	100	0	0	169772	24000	1.83	1.91/0.98	0	0	0	0	0	
17	0	0	0	0	100	0	0	280499	24000	1.44	1.91/0.98	0	0	0	0	0	
18	1	0	26	0	74	0	0	357407	19000	2.08	1.91/0.98	0	0	0	0	0	
19	0	0	0	0	100	0	0	1980728	24000	2.55	1.91/0.98	0	0	0	0	0	
20	0	0	0	0	100	0	0	1482722	24000	3.34	1.91/0.98	0	0	0	0	0	
21	0	0	3	4	93	0	0	1538206	22000	4.01	1.91/0.98	0	0	0	0	0	
22	14	5	0	2	78	0	0	7009864	19000	2.86	1.91/0.98	0	0	0	0	0	
23	0	0	0	0	100	0	0	5806749	24000	2.73	1.91/0.98	0	0	0	0	0	

peer-to-peer notes: *1=Vts1/Vts2, *2=max(V1,V2), *3=min(V1,V2), *4=V1+V2, *5=Complib



Hourly IART Reporting

1HOURIART GROUP: DUMMY - HOURLY CACHE IART MOUNT STATS
 TITLENAME VTSSTATS
 Report Date 24MAY2005/01:01(TUE)
 Logical Day Start hour: 00

VTSNUM=B2594
 L1/V1= n/a L2/V2= n/a
 Channels(ES+FI=04 SCSI=00) DRIVES= 8
 TVC size=0864GB VTS Code=734.01 LM Code=530.08 LM ref hour: 00
 Run Date: 09:04 15AUG2005
 Data timestamp: 01:01:56

	TOTAL MOUNTS	AVERAGE MOUNT SECONDS	# FR MOUNTS (frm)	AV FR MOUNT TIME (frt)	CACHE HIT MOUNTS (chm)	AVG HIT MOUNT TIME (chmt)	CACHE MISS MOUNTS (cmm)	AVG MISS MOUNT TIME (cmmt)	%MNTS NOT SAT	COPY VOLUME MANAGEMENT (cvmpl)	RECALL (rvmpl)
s94opm>											
00	51	1	46	1	5	1	0	0	0	0	1
01	180	1	154	1	26	4	0	0	0	0	1
02	94	2	78	3	16	2	0	0	0	0	1
03	133	1	121	1	12	7	0	0	0	0	1
04	95	1	79	1	15	2	1	1	1	0	1
05	59	1	55	1	4	7	0	0	0	0	1
06	151	14	36	1	6	40	109	17	72	0	1
07	122	30	37	6	13	10	72	46	59	0	1
08	229	16	79	1	12	1	138	26	60	0	1
09	102	24	33	1	15	1	54	45	52	0	1
10	248	10	119	1	26	10	103	22	41	0	1
11	274	11	131	1	23	1	120	26	43	0	1
12	177	25	76	1	24	1	77	57	43	0	1
13	65	22	36	2	13	3	16	84	24	0	1
14	114	3	84	3	23	2	7	20	6	0	1
15	101	2	57	3	44	1	0	0	0	0	1
16	53	20	43	1	3	1	7	152	13	0	1
17	44	4	37	1	5	4	2	81	4	0	1
18	320	1	312	1	7	11	1	2	0	0	1
19	220	2	202	2	17	6	1	1	0	0	1
20	166	3	140	3	26	6	0	0	0	0	1
21	115	1	98	1	13	3	4	1	3	0	1
22	180	1	169	1	11	14	0	0	0	0	1
23	224	1	178	1	45	5	1	1	0	0	1
DATE	3517		2400		404		713		20		
VTS#	3517		2400		404		713		20		



Hourly PGO Reporting

1HOURPREF GROUP: DUMMY - HOURLY PREFERENCE LVL CACHE STATS VTSNUM=70287

VTSSTATS(05080)

TITLENAME VTSSTATS

L1/V1= n/a

L2/V2= n/a

Run Date: 14:51 22MAR2005

Report Date 28FEB2005/01:01(MON)

Channels(ES+FI=04 SCSI=00) DRIVES=12

Data timestamp: 01:01:43

Logical Day Start hour: 00

TVC size=1728GB

VTS Code=731.04 LM Code=530.08 LM ref hour: 01

HR	PREF	VVOLS	DATA (MB)	4HR.	48HR.	35DAY	VV MIG	VV MIG	VV MIG
HOUR	MGMT	IN	RESIDENT	ROLLAVG	ROLLAVG	ROLLAVG	LAST4	LAST48	LAST35
	CNTL	CACHE	IN CACHE	AGE HRS	AGE HRS	AGE HRS	HOURS	HOURS	DAYS
s94opm>(pmc)	(vvic)	(dric)	(tvca4)	(tvca48)	(tvca35)	(vm4)	(vm48)	(vm35)	
00	PG0	52	43198	6.0	2.8	3.9	277	2071	37845
01	PG0	37	29575	6.1	3.1	3.9	346	2149	37845
02	PG0	28	21989	5.1	3.1	3.9	430	2174	37845
03	PG0	20	15725	5.0	3.3	3.9	517	2182	37845
04	PG0	11	9077	3.6	3.5	3.9	438	2139	37845
05	PG0	11	9076	2.9	3.6	3.9	327	2108	37845
06	PG0	13	9618	4.0	3.7	3.9	270	2110	37845
07	PG0	4	2972	5.1	3.9	3.9	173	2093	37845
08	PG0	7	2984	5.8	3.9	3.9	121	2089	37845
09	PG0	8	6295	6.4	3.9	3.9	114	2093	37845
10	PG0	8	6294	8.4	4.0	3.9	82	2120	37845
11	PG0	4	2972	6.9	4.0	3.9	71	2120	37845
12	PG0	4	2972	7.0	4.0	3.9	70	2120	37845
13	PG0	4	3024	5.3	4.0	3.9	65	2136	37845
14	PG0	3	2491	3.7	4.0	3.9	27	2137	37845
15	PG0	1	830	2.3	4.0	3.9	19	2139	37845
16	PG0	6	4369	2.1	4.0	3.9	44	2164	37845
17	PG0	9	6133	1.0	3.9	3.9	54	2190	37845
18	PG0	13	10742	.7	3.9	3.9	90	2227	37845
19	PG0	11	8483	.5	3.8	3.9	143	2282	37845
20	PG0	28	18304	.7	3.8	3.9	204	2317	37845
21	PG0	14	11095	.6	3.8	3.9	256	2277	37845
22	PG0	9	7474	.6	3.9	3.9	283	2219	37845



Hourly PG1 Reporting

1HOURPREF GROUP: DUMMY - HOURLY PREFERENCE LVL CACHE STATS VTSNUM=70287

VTSSTATS(05080)

TITLENAME VTSSTATS

L1/V1= n/a

L2/V2= n/a

Run Date: 14:51 22MAR2005

Report Date 28FEB2005/01:01(MON)

Channels(ES+FI=04 SCSI=00) DRIVES=12

Data timestamp: 01:01:43

Logical Day Start hour: 00

TVC size=1728GB

VTS Code=731.04 LM Code=530.08 LM ref hour: 01

HR	PREF	VVOLS	DATA (MB)	4HR.	48HR.	35DAY	VV MIG	VV MIG	VV MIG
MGMT	IN	RESIDENT	ROLLAVG	ROLLAVG	ROLLAVG	LAST4	LAST48	LAST35	
IN	CACHE	IN CACHE	AGE HRS	AGE HRS	AGE HRS	HOURS	HOURS	DAYS	
cntl	(vvic)	(dric)	(tvca4)	(tvca48)	(tvca35)	(vm4)	(vm48)	(vm35)	
00	PG1	4373	1631783	45.5	21.0	22.3	874	3846	91143
01	PG1	4368	1647251	40.1	21.6	22.3	945	3990	91143
02	PG1	4405	1658850	35.8	21.6	22.3	991	4000	91143
03	PG1	4414	1657049	31.0	21.9	22.3	998	4010	91143
04	PG1	4448	1672100	25.3	21.9	22.3	730	3887	91143
05	PG1	4437	1675597	21.9	22.4	22.3	490	3851	91143
06	PG1	4394	1668014	27.2	23.0	22.3	496	3902	91143
07	PG1	4410	1678223	32.5	23.6	22.3	369	3920	91143
08	PG1	4380	1676617	39.7	24.2	22.3	357	3974	91143
09	PG1	4309	1671659	42.7	25.2	22.3	441	4094	91143
10	PG1	4266	1669372	48.9	25.9	22.3	412	4189	91143
11	PG1	4292	1675339	49.0	26.2	22.3	409	4221	91143
12	PG1	4321	1676975	47.0	26.4	22.3	398	4271	91143
13	PG1	4307	1672311	44.0	26.7	22.3	352	4379	91143
14	PG1	4267	1674356	47.4	27.4	22.3	309	4476	91143
15	PG1	4301	1678489	49.4	27.7	22.3	303	4524	91143
16	PG1	4276	1672227	46.6	28.2	22.3	401	4672	91143
17	PG1	4233	1668960	46.3	28.4	22.3	419	4798	91143
18	PG1	4204	1666969	39.2	28.3	22.3	418	4864	91143
19	PG1	4225	1667605	32.7	28.1	22.3	452	4946	91143
20	PG1	4198	1653485	24.3	28.0	22.3	470	5061	91143
21	PG1	4219	1662098	18.3	28.4	22.3	473	5072	91143
22	PG1	4263	1666286	18.6	28.9	22.3	510	5083	91143



Hourly Active Data & Reclamation

1HOURLRCLM GROUP: DUMMY - HOURLY ACTIVE DATA & RECLAMATION VTSNUM=70287 VTSSTATS(05080)
 TITLENAME VTSSTATS L1/V1= n/a L2/V2= n/a Run Date: 14:51 22MAR2005
 Report Date 28FEB2005/01:01 (MON) Channels(ES+FI=04 SCSI=00) DRIVES=12 Data timestamp: 01:01:43
 Logical Day Start hour: 00 TVC size=1728GB VTS Code=731.04 LM Code=530.08 LM ref hour: 01

H O U R	----- NUMBER OF CARTRIDGES CONTAINING THE INDICATED PERCENTAGE OF ACTIVE DATA -----																			TOTAL ACTIVE CARTS	PCT ACT DATA	-RECLAIM--		
	<=05	<=10	<=15	<=20	<=25	<=30	<=35	<=40	<=45	<=50	<=55	<=60	<=65	<=70	<=75	<=80	<=85	<=90	<=95			<=100	THRHL	PCT
00	14	8	5	9	18	24	89	403	382	292	230	145	137	131	112	106	93	104	128	270	2700	58	n/a	n/a
01	14	8	5	9	18	24	89	403	382	292	230	145	137	131	112	106	93	104	128	277	2707	58	n/a	n/a
02	14	8	5	9	18	24	89	403	382	292	230	145	137	131	112	106	93	104	128	286	2716	58	n/a	n/a
03	14	8	5	9	18	24	89	403	382	292	230	145	137	131	112	106	93	104	128	291	2721	59	n/a	n/a
04	6	8	5	9	18	24	89	403	382	292	230	145	137	131	112	106	93	104	128	295	2717	59	n/a	n/a
05	1	3	5	9	18	24	89	403	382	292	230	145	137	131	112	106	93	104	128	298	2710	59	n/a	n/a
06	0	0	2	9	18	24	89	403	382	292	231	144	137	131	112	106	93	104	128	302	2707	59	n/a	n/a
07	1	0	0	4	18	24	89	403	382	292	232	143	137	131	112	106	93	104	128	304	2703	59	n/a	n/a
08	0	0	0	0	15	24	89	403	382	292	232	144	136	131	112	106	93	104	128	307	2698	59	n/a	n/a
09	0	0	1	1	10	24	89	403	382	292	232	144	136	131	112	106	93	104	128	308	2696	60	n/a	n/a
10	0	0	0	0	8	24	89	403	382	293	231	144	136	131	112	106	93	104	128	313	2697	60	n/a	n/a
11	0	0	2	0	3	24	89	403	382	293	231	144	136	131	112	106	93	104	128	316	2697	60	n/a	n/a
12	0	0	0	0	1	21	89	403	382	293	231	144	136	131	112	106	93	104	128	319	2693	60	n/a	n/a
13	1	0	1	0	0	16	89	403	383	292	231	145	135	131	112	106	93	104	128	321	2691	60	n/a	n/a
14	0	0	1	0	0	12	90	402	383	292	231	145	135	131	112	106	93	104	128	324	2689	60	n/a	n/a
15	0	0	0	0	0	7	90	403	382	292	231	145	136	130	112	106	93	104	128	326	2685	60	n/a	n/a
16	1	2	4	5	11	18	111	408	388	300	229	148	140	113	110	98	101	109	119	271	2686	58	n/a	n/a
17	0	0	2	5	12	17	111	408	388	300	229	148	140	113	110	98	101	109	119	275	2685	59	n/a	n/a
18	0	0	1	0	12	17	111	408	388	300	229	148	140	113	110	98	101	109	119	278	2682	59	n/a	n/a
19	1	0	1	0	8	17	111	408	388	300	229	148	140	113	110	98	101	109	119	280	2681	59	n/a	n/a
20	0	1	0	0	8	17	111	408	388	300	229	148	140	113	110	98	101	109	119	284	2684	59	n/a	n/a
21	0	1	0	0	8	17	111	408	388	300	229	148	140	113	110	98	101	109	119	288	2688	59	n/a	n/a
22	0	1	0	0	8	17	111	408	388	300	229	148	140	113	110	98	101	109	119	293	2693	59	n/a	n/a

□



Hourly Composite Library Activity

1HOURP2P PTPVTS=PTP1 - HOURLY COMPOSITE LIBRARY ACTIVITY VTSNUM=11111 *** Peer To Peer VTS***
 TITLENAME VTSSTATS _____ L1/V1= (19123,B2594) L2/V2= (19510,B2706)
 Report Date 24MAY2005/01:01 (TUE) Channels (ES+FI=08 SCSI=00) DRIVES= 8/8
 Logical Day Start hour: 00 TVC size=0864/0864GB

VTSSTATS(05221)
 Run Date: 09:04 15AUG2005
 Data timestamp: 01:01:56
 LM ref hour: 00

H	LOGICAL VOLS TO BE COPIED	MBs OF DATA YET TO BE COPIED	MOUNTS COMPLETED FOR VTS-0	MOUNTS COMPLETED FOR VTS-1
U	cllvc	cldtc	clmt0	clmt1
R	*5	*5	*5	*5
00	16	7922	8	41
01	4	3169	51	127
02	2	42	33	59
03	0	0	63	71
04	0	0	44	50
05	2	3	40	19
06	8	1576	132	25
07	0	0	94	24
08	2	1585	164	64
09	0	0	78	24
10	4	156	170	75
11	0	0	173	100
12	8	6337	142	36
13	0	0	46	18
14	0	0	67	44
15	4	1728	62	39
16	4	13	30	23
17	8	4327	27	16
18	0	0	173	147
19	8	2859	111	107
20	4	2454	82	82
21	3	59	57	58
22	15	10993	99	79
23	16	7015	123	97

peer-to-peer notes: *1=Vts1/Vts2, *2=max(V1,V2), *3=min(V1,V2), *4=V1+V2, *5=Complib



Hourly Composite lib VTC Activity

1HOURLVTC PTPVTS=PTP1 - HOURLY COMPLIB VTC ACTIVITY
 TITLENAME VTSSTATS _____
 Report Date 24MAY2005/01:01(TUE)
 Logical Day Start hour: 00

VTSNUM=11111 *** Peer To Peer VTS***
 L1/V1= (19123,B2594) L2/V2= (19510,B2706)
 Channels(ES+FI=08 SCSI=00) DRIVES= 8/8
 TVC size=0864/0864GB

VTSSTATS(05221)
 Run Date: 09:04 15AUG2005
 Data timestamp: 01:01:56
 LM ref hour: 00

hour 00								hour 01									
MBYTES _COPIED	VOLS _COPIED	HOST_READ MB_XFRRD	HOST_WRT MB_XFRRD	FAST READY	CACHE HIT	RCALL MNTS	VTCn COMP	MBYTES _COPIED	VOLS _COPIED	HOST_READ MB_XFRRD	HOST_WRT MB_XFRRD	FAST READY	CACHE HIT	RCALL MNTS	VTCn COMP		
cldc*	clvc*	clrd*	clwd*	clcm*	clsm*	clrm*	clcr*	cldc*	clvc*	clrd*	clwd*	clcm*	clsm*	clrm*	clcr*		
*5	*5	*5	*5	*5	*5	*5	*5	*5	*5	*5	*5	*5	*5	*5	*5		
VTC0	7974	14	0	22637	21	0	0	1.77	VTC0	11521	25	16037	60147	40	17	0	2.63
VTC1	2614	6	3260	14511	8	2	0	3.46	VTC1	10318	18	11804	70783	47	15	0	2.54
VTC2	3943	12	4204	21245	12	1	0	3.01	VTC2	22255	36	9081	28662	21	10	0	2.37
VTC3	6321	10	6590	0	0	5	0	0.00	VTC3	23143	51	11136	2040	18	10	0	5.20
VTC4	0	0	0	0	0	0	0	0.00	VTC4	0	0	0	0	0	0	0	0.00
VTC5	0	0	0	0	0	0	0	0.00	VTC5	0	0	0	0	0	0	0	0.00
VTC6	0	0	0	0	0	0	0	0.00	VTC6	0	0	0	0	0	0	0	0.00
VTC7	0	0	0	0	0	0	0	0.00	VTC7	0	0	0	0	0	0	0	0.00
hour 02								hour 03									
VTC0	6802	15	10278	22597	17	8	0	2.35	VTC0	5496	21	1290	3167	16	3	0	2.24
VTC1	6572	14	10595	9686	11	7	0	2.50	VTC1	3272	24	16873	584	21	9	0	2.60
VTC2	2416	13	13918	3484	16	11	0	2.57	VTC2	7507	33	5430	18360	30	4	0	2.04
VTC3	3388	15	11273	8232	15	7	0	2.99	VTC3	7823	32	9087	32428	41	10	0	2.41
VTC4	0	0	0	0	0	0	0	0.00	VTC4	0	0	0	0	0	0	0	0.00
VTC5	0	0	0	0	0	0	0	0.00	VTC5	0	0	0	0	0	0	0	0.00
VTC6	0	0	0	0	0	0	0	0.00	VTC6	0	0	0	0	0	0	0	0.00
VTC7	0	0	0	0	0	0	0	0.00	VTC7	0	0	0	0	0	0	0	0.00
hour 04								hour 05									
VTC0	4497	17	11	19801	16	3	0	2.90	VTC0	5059	12	8677	11345	13	5	0	2.63
VTC1	2566	11	11	22673	19	2	0	4.57	VTC1	6530	15	2264	21667	23	2	0	1.56
VTC2	8478	27	11245	17859	19	8	0	2.81	VTC2	6279	14	5700	5306	7	2	0	3.37
VTC3	4369	17	30797	3826	12	15	0	2.18	VTC3	3273	8	3741	3774	5	2	0	2.78
VTC4	0	0	0	0	0	0	0	0.00	VTC4	0	0	0	0	0	0	0	0.00
VTC5	0	0	0	0	0	0	0	0.00	VTC5	0	0	0	0	0	0	0	0.00
VTC6	0	0	0	0	0	0	0	0.00	VTC6	0	0	0	0	0	0	0	0.00
VTC7	0	0	0	0	0	0	0	0.00	VTC7	0	0	0	0	0	0	0	0.00



PTP configuration

Preferred I/O VTS	Mstr VTS	Dflt Copy Mode	Scr to Prefd VTS	I/O Sel Criteria Primary	Cntrlr Opertn Mode	Write Protect Mode	VTCn to VTS0 Linkspeed	VTCn to VTS1 Linkspeed	VTCn mod.fix level	
clpi*	clpm*	cldm*	clfs*	clpv*	clco*	clwp*	clls*_0	clls*_1	vtc*_mod	
*5	*5	*5	*5	*5	*5	*5	*5	*5		
-----last_hour_of_day-----										
VTC0	none	VTS0	Def	No	No	Normal	No	1	1	734.01
VTC1	none	VTS0	Def	No	No	Normal	No	1	1	734.01
VTC2	none	VTS0	Def	No	No	Normal	No	1	1	734.01
VTC3	none	VTS0	Def	No	No	Normal	No	1	1	734.01
VTC4	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
VTC5	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
VTC6	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
VTC7	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

*Linkspeeds: 1= ESCON < 5km, FICON < 30km
 2= ESCON < 10km, FICON < 80km
 3= Chan Ext < 1000km, ESCON over DWDM < 10km, FICON < 100km
 4= Chan Ext > 1000km, ESCON over DWDM < 15km
 5= ESCON over DWDM > 15km



Hourly Volume Pool Media Statistics

1HOURPOLM GROUP: -HOUR VOLUME POOL MEDIA STATISTICS VTSNUM=B2594

VTSSTATS (05221)

TITLENAME VTSSTATS

Run Date: 09:04 15AUG2005

Report Date 24MAY2005/01:01 (TUE)

Data timestamp: 01:01:57

Logical Day Start hour: 00

LM ref hour: 01

====>POOL NUM= 1 (3590H) RECLAMATION POOL NUM= 1

HR	IN POOL	LOG VV	MB OF POOL	MB WRITTEN TO POOL	STATC MDIA0	STATC MDIA0	BRROW MDIA0	BRROW MDIA0	STATC MDIA1	STATC MDIA1	BRROW MDIA1	BRROW MDIA1	AVG AGE RES DATA	MAX AGE RES DATA	AVG AGE FULL VOL	MAX AGE FULL VOL
94S2=>	alvip	adivp	dwtplh	sssvc	spsvc	bssvc	bpsvc	sssvc	spsvc	bssvc	bpsvc	aaord	maord	aaofpsv	maofpsv	
00	150493	30938790	16645	0	0	0	0	0	0	0	2	842	47	145	49	149
01	150622	31009626	68861	0	0	0	0	0	0	0	2	842	47	145	49	149
02	150682	31040219	23554	0	0	0	0	0	0	0	2	843	47	145	49	149
03	150754	31061399	21965	0	0	0	0	0	0	0	2	844	47	145	49	149
04	150834	31081976	22948	0	0	0	0	0	0	0	2	844	47	145	49	149
05	150872	31093570	17970	0	0	0	0	0	0	0	2	845	47	145	49	149
06	150978	31113813	23889	0	0	0	0	0	0	0	2	845	47	145	49	149
07	151004	31117919	26212	0	0	0	0	0	0	0	2	845	47	145	49	149
08	151023	31122184	27166	0	0	0	0	0	0	0	2	845	48	145	49	149
09	151031	31124924	20775	0	0	0	0	0	0	0	2	846	48	146	49	149
10	151094	31152625	52434	0	0	0	0	0	0	0	2	846	48	146	49	149
11	151175	31173076	28929	0	0	0	0	0	0	0	2	846	48	146	49	149
12	151244	31187992	37204	0	0	0	0	0	0	0	2	846	48	146	49	149
13	151278	31199486	26287	0	0	0	0	0	0	0	2	846	48	146	50	149
14	150784	31191406	6836	0	0	0	0	0	0	0	2	846	48	146	50	150
15	150824	31195675	4381	0	0	0	0	0	0	0	2	846	48	146	50	150
16	150248	31049045	4306	0	0	0	0	0	0	0	2	846	48	146	50	150
17	150260	31051230	2185	0	0	0	0	0	0	0	2	844	48	146	50	150
18	150460	31059031	8592	0	0	0	0	0	0	0	2	845	48	146	49	150
19	150664	31069555	18245	0	0	0	0	0	0	0	2	845	48	146	50	150
20	150754	31090727	13450	0	0	0	0	0	0	0	2	845	48	146	50	150
21	150836	31102286	12091	0	0	0	0	0	0	0	2	845	48	146	50	150
22	150950	31127232	37501	0	0	0	0	0	0	0	2	846	48	146	50	150
23	151184	31200190	69859	0	0	0	0	0	0	0	2	847	48	146	50	150



Hourly Active Data by Pool

1HOURPOLR GROUP: - HOURLY ACTIVE DATA & RECLAMATION VTSNUM=B2594

VTSSTATS (05221)

TITLENAME VTSSTATS

Run Date: 09:04 15AUG2005

Report Date 24MAY2005/01:01 (TUE)

Data timestamp: 01:01:57

Logical Day Start hour: 00

LM ref hour: 01

Note: Only volumes that have previously been marked full will be counted here. Volumes that are still in the process of filling for this pool number will not be included here.

====>POOL NUM= 1 RECLAMATION POOL NUM= 1

H O U R	NUMBER OF CARTRIDGES CONTAINING THE INDICATED PERCENTAGE OF ACTIVE DATA																			TOTAL ACTIVE CARTS	PCT ACT DATA	-RECLAIM--		
	<=05	<=10	<=15	<=20	<=25	<=30	<=35	<=40	<=45	<=50	<=55	<=60	<=65	<=70	<=75	<=80	<=85	<=90	<=95			<=100	PCT	THRHL
00	0	0	0	0	0	3	61	70	74	72	57	47	54	49	49	62	43	50	60	83	834	64	30	2
01	0	0	0	0	0	3	61	70	74	72	57	47	54	49	49	62	43	50	60	83	834	64	30	2
02	0	0	0	0	0	3	61	70	74	72	57	47	54	49	49	62	43	50	60	84	835	64	30	2
03	0	0	0	0	0	3	61	70	74	72	57	47	54	49	49	62	43	50	60	85	836	64	30	2
04	0	0	0	0	0	3	61	70	74	72	57	47	54	49	49	62	43	50	60	85	836	64	30	2
05	0	0	0	0	0	3	61	70	74	72	57	47	54	49	49	62	43	50	60	86	837	64	30	2
06	0	0	0	0	0	3	61	70	74	72	57	47	54	49	49	62	43	50	60	86	837	64	30	2
07	0	0	0	0	0	3	61	70	74	72	57	47	54	49	49	62	43	50	60	86	837	64	30	2
08	0	0	0	0	0	3	61	70	74	72	57	47	54	49	49	62	43	50	60	86	837	64	30	2
09	0	0	0	0	0	3	61	70	74	72	57	47	54	49	49	62	43	50	60	87	838	64	30	2
10	0	0	0	0	0	3	61	70	74	72	57	47	54	49	49	62	43	50	60	87	838	64	30	2
11	0	0	0	0	0	3	61	70	74	72	57	47	54	49	49	62	43	50	60	87	838	64	30	2
12	0	0	0	0	0	3	61	70	74	72	57	47	54	49	49	62	43	50	60	87	838	64	30	2
13	0	0	0	0	0	3	61	70	74	72	57	47	54	49	49	62	43	50	60	87	838	64	30	2
14	0	0	0	0	0	4	60	71	74	71	57	47	55	48	49	62	43	50	61	86	838	64	30	2
15	0	0	0	0	0	4	60	71	74	71	57	47	55	48	49	62	43	50	61	86	838	64	30	2
16	0	0	0	1	1	5	59	69	79	70	56	45	59	50	47	63	41	50	60	83	838	64	30	5
17	0	0	0	0	0	4	59	69	79	70	56	45	59	50	47	63	41	50	60	84	836	64	30	2
18	0	0	0	0	0	4	59	69	79	70	56	45	59	50	47	63	41	50	60	85	837	64	30	2
19	0	0	0	0	0	4	59	69	79	70	56	45	59	50	47	63	41	50	60	85	837	64	30	2
20	0	0	0	0	0	4	59	69	79	70	56	45	59	50	47	63	41	50	60	85	837	64	30	2
21	0	0	0	0	0	4	59	69	79	70	56	45	59	50	47	63	41	50	60	85	837	64	30	2
22	0	0	0	0	0	4	59	69	79	70	56	45	59	50	47	63	41	50	60	86	838	64	30	2
23	0	0	0	0	0	4	59	69	79	70	56	45	59	50	47	63	41	50	60	87	839	64	30	2



Hourly Poolset Statistics

1HOURPOLS GROUP: - HOURLY VOLUME POOLSET STATISTICS VTSNUM=B2594

VTSSTATS(05221)

TITLENAME VTSSTATS

Run Date: 09:04 15AUG2005

Report Date 24MAY2005/01:01(TUE)

Data timestamp: 01:01:57

Logical Day Start hour: 00

LM ref hour: 01

HR	LAST RCONCILE TIMESTAMP	MAX POOLS IN PART	MEDIA TYPE	#SCRATCH STACKED VVOLS	MEDIA TYPE	#SCRATCH STACKED VVOLS	MEDIA TYPE	#SCRATCH STACKED VVOLS	MEDIA TYPE	#SCRATCH STACKED VVOLS
94s2=>	lrttd	mnvp	bpmi0	bpsvc0	bpmi1	bpsvc1	bpmi2	bpsvc2	bpmi3	bpsvc3
01	2105232005	32	3590J	0	3590K	494	3592JA	0	3592JJ	0
02	2105232005	32	3590J	0	3590K	493	3592JA	0	3592JJ	0
03	2105232005	32	3590J	0	3590K	492	3592JA	0	3592JJ	0
04	2105232005	32	3590J	0	3590K	492	3592JA	0	3592JJ	0
05	2105232005	32	3590J	0	3590K	491	3592JA	0	3592JJ	0
06	2105232005	32	3590J	0	3590K	491	3592JA	0	3592JJ	0
07	2105232005	32	3590J	0	3590K	491	3592JA	0	3592JJ	0
08	2105232005	32	3590J	0	3590K	491	3592JA	0	3592JJ	0
09	2105232005	32	3590J	0	3590K	490	3592JA	0	3592JJ	0
10	2105232005	32	3590J	0	3590K	490	3592JA	0	3592JJ	0
11	2105232005	32	3590J	0	3590K	490	3592JA	0	3592JJ	0
12	2105232005	32	3590J	0	3590K	490	3592JA	0	3592JJ	0
13	2105232005	32	3590J	0	3590K	490	3592JA	0	3592JJ	0
14	1305242005	32	3590J	0	3590K	490	3592JA	0	3592JJ	0
15	1305242005	32	3590J	0	3590K	490	3592JA	0	3592JJ	0
16	1505242005	32	3590J	0	3590K	490	3592JA	0	3592JJ	0
17	1505242005	32	3590J	0	3590K	492	3592JA	0	3592JJ	0
18	1505242005	32	3590J	0	3590K	491	3592JA	0	3592JJ	0
19	1505242005	32	3590J	0	3590K	491	3592JA	0	3592JJ	0
20	1505242005	32	3590J	0	3590K	491	3592JA	0	3592JJ	0
21	1505242005	32	3590J	0	3590K	491	3592JA	0	3592JJ	0
22	1505242005	32	3590J	0	3590K	490	3592JA	0	3592JJ	0
23	1505242005	32	3590J	0	3590K	489	3592JA	0	3592JJ	0



Daily VTS Activity - page 1

1DAYPHYS GROUP: DUMMY -DAILY REPORT		VTSNUM=B2594					VTSSTATS(05221)	
TITLENAME VTSSTATS		L1/V1= n/a		L2/V2= n/a		Run Date: 10:30 15AUG2005		
Report Date 22MAY2005/01:02 to 26MAY2005		Channels(ES+FI=04 SCSI=00) DRIVES= 8			Data timestamp: 01:02:02			
Logical Day Start hour: 00		-PAGE 1 OF 2-		TVC size=0864GB		VTS Code=734.01 LM Code=530.08 LM ref hour: 00		
		SMF94 FLD	22MAY05SU	23MAY05MO	24MAY05TU	25MAY05WE	26MAY05TH	
VTS micro code level	lvvcm.lvvcv	734.01	734.01	734.01	734.01	734.01	734.01	
Library Manager micro code level	lvlmv.lvlmr	530.08	530.08	530.08	530.08	530.08	530.08	
DAILY PHYSICAL DRIVE ACTIVITY (DEVTYPE1/DEVTYPE2)								
Maximum physical drives mounted.....	maxcm	4/ 0	8/ 0	8/ 0	8/ 0	8/ 0	8/ 0	
Average physical drives mounted.....	avgcm	3.0/ .0	2.5/ .0	2.9/ .0	2.9/ .0	4.6/ .0	4.6/ .0	
Maximum time to mount physical drive (sec)...	maxttm	56/ 0	124/ 0	138/ 0	353/ 0	242/ 0	242/ 0	
Average time to mount physical drive (sec)...	avgttm	56/ 0	51/ 0	53/ 0	51/ 0	50/ 0	50/ 0	
Physical mounts for recall.....	stgmnts	0/ 0	69/ 0	65/ 0	57/ 0	14/ 0	14/ 0	
Physical mounts for copy.....	migmnts	1/ 0	70/ 0	79/ 0	82/ 0	22/ 0	22/ 0	
Physical mounts for reclaim.....	recmnts	0/ 0	0/ 0	3/ 0	8/ 0	6/ 0	6/ 0	
Total physical mounts for vts.....	...	1	139	147	147	42	42	
Total physical mounts for native.....	...	3	45	37	33	2	2	
Virtual volumes premigrated.....	vmp	70	1544	2343	2488	408	408	
DAILY VIRTUAL DRIVE ACTIVITY								
Maximum virtual volumes ready.....	maxvdm	na	na	na	na	na	na	
Average virtual volumes ready.....	avgvdm	n	n	n	n	n	n	
Maximum virtual mount time (sec).....	vrx	na	na	na	na	na	na	
Average virtual mount time (sec).....	vra	n.a	n.a	n.a	n.a	n.a	n.a	
Total virtual mounts.....	...	na	na	na	na	na	na	
Fast ready - Number of mounts.....	vfr	na	na	na	na	na	na	
- Maximum mount time (sec).....	maxfr	na	na	na	na	na	na	
- Minimum mount time (sec).....	minfr	na	na	na	na	na	na	
- Average mount time (sec).....	avgfr	na	na	na	na	na	na	
Cache hits - Number of mounts.....	vmh	na	na	na	na	na	na	
- Maximum mount time (sec).....	maxch	na	na	na	na	na	na	
- Minimum mount time (sec).....	minch	na	na	na	na	na	na	
- Average mount time (sec).....	avgch	na	na	na	na	na	na	
Recalls - Number of mounts.....	vms	na	na	na	na	na	na	
- Maximum mount time (sec).....	maxrm	na	na	na	na	na	na	
- Minimum mount time (sec).....	minrm	na	na	na	na	na	na	
- Average mount time (sec).....	avgrm	na	na	na	na	na	na	
Percentage of mounts not satisfied in cache..	...	n.a	n.a	n.a	n.a	n.a	n.a	
Virtual volume residency (sec) - Maximum.....	vvx	na	na	na	na	na	na	
Virtual volume residency (sec) - Minimum.....	vvn	na	na	na	na	na	na	
Virtual volume residency (sec) - Average.....	vva	n.a	n.a	n.a	n.a	n.a	n.a	



Daily VTS Activity - page 1 (cont)

DAILY TAPE VOLUME CACHE ACTIVITY

Megabytes written to cache.....	vbw	36293	120473	202858	162020	54530
Megabytes read from cache.....	vbr	2	113676	143002	134003	46016
Maximum channel megabytes per second.....	...	10.08	8.90	11.91	10.69	9.04
Avg Max channel megabytes per second.....	...	n/a	n/a	n/a	n/a	n/a
Average channel megabytes per second.....	...	10.08	2.70	3.99	3.42	4.64
Ratio: max to avg channel megabytes per sec..	...	1.00	3.29	2.98	3.12	1.94
Megabytes written to physical 3590.....	ppw+spw	54832	286959	592285	520515	87092
Megabytes read from physical 3590.....	n/a	na	na	na	na	na
Weighted average hh:mm virt volume in cache..	vca	na:na	na:na	na:na	na:na	na:na
Maximum hh:mm of virt vol in cache	mtvca	1030:04	1054:04	1078:04	1102:04	1108:04
Average virt vol size in TVC (mb).....	vcz	376	409	320	256	265
Average size all virt vols (mb).....	vba/vla	205	205	206	206	206
Maximum number of virt vols in cache	vvic	2118	2159	2694	3442	3222
Virtual volumes premigrated.....	vmp	70	1544	2343	2488	408
Maximum # of virt vols managed by vts.....	vla	150462	151092	151278	151709	151601
Maximum private stacked volume count.....	prict	837	841	847	850	849
Minimum scratch stacked volume count.....	srtct	501	497	491	488	489
Maximum active data on stacked cartridges(gb)	vba	30873	31022	31200	31368	31277
Minimum available stacked capacity (gb).....	vec	57414	56956	56268	55924	56039
Last hr # of virt vols managed by vts.....	vla	150462	150455	151184	151376	150238
Last hr private stacked volume count.....	prict	837	841	847	847	845
Last hr scratch stacked volume count.....	srtct	501	497	491	491	493
Last hr active data on stacked cartridges(gb)	vba	30873	30926	31200	31249	31053
Last hr available stacked capacity (gb).....	vec	57414	56956	56268	56268	56497



Daily VTS Activity - page 2

1DAYPHYS GROUP: DUMMY -DAILY REPORT
 TITLENAME VTSSTATS
 Report Date 22MAY2005/01:02 to 26MAY2005
 Logical Day Start hour: 00 -PAGE 2 OF 2-

VTSNUM=B2594
 L1/V1= n/a L2/V2= n/a
 Channels(ES+FI=04 SCSI=00) DRIVES= 8
 TVC size=0864GB VTS Code=734.01 LM Code=530.08 LM ref hour: 00

VTSSTATS (05221)

Run Date: 10:30 15AUG2005

Data timestamp: 01:02:02

DAILY IMPORT - EXPORT ACTIVITY

Physical volumes imported.....	im1	0	0	0	0	0
Logical volumes imported.....	im2	0	0	0	0	0
Total megabytes imported.....	im3	0	0	0	0	0
Megabytes moved from stacked to stacked vol..	im4	0	0	0	0	0
Physical volumes exported.....	ex1	0	0	0	0	0
Logical volumes exported.....	ex2	0	0	0	0	0
Total megabytes exported.....	ex3	0	0	0	0	0
Megabytes moved from stacked to stacked vol..	ex4	0	0	0	0	0

DAILY PERFORMANCE INDICATORS (*=hourly maximums)

Percent of <= 2k blocks written.....	0kb	na*	na*	na*	na*	na*
Percent of <= 4k blocks written.....	2kb	na*	na*	na*	na*	na*
Percent of <= 8k blocks written.....	4kb	na*	na*	na*	na*	na*
Percent of <=16k blocks written.....	8kb	na*	na*	na*	na*	na*
Percent of <=32k blocks written.....	16kb	na*	na*	na*	na*	na*
Percent of <=64k blocks written.....	32kb	na*	na*	na*	na*	na*
Percent of > 64k blocks written.....	64kb	na*	na*	na*	na*	na*
Total number of blocks written.....	...	naK	naK	naK	naK	naK
Average blocksize written.....	...	na*	na*	na*	na*	na*
Compression ratio into cache.....	harat	0.na*	0.na*	0.na*	0.na*	0.na*
Compression ratio to 3590.....	bsrat	0.na*	0.na*	0.na*	0.na*	0.na*
Weighted avg compression ratio into cache....	...	n.a	n.a	n.a	n.a	n.a
Maximum recall throttling percentage.....	rcprt	na*	na*	na*	na*	na*
Maximum write throttling percentage.....	wrovt	na*	na*	na*	na*	na*
Average recall throttling value (msec).....	avrct	na*	na*	na*	na*	na*
Average write throttling value (msec).....	avwot	na*	na*	na*	na*	na*
Overall throttling value (msec).....	totat	na*	na*	na*	na*	na*



Daily VTS Activity - page 2 (cont)

DAILY ACTIVE DATA & RECLAMATION (*=last hour of day)

Cartridges containing <= 05% of active data.. adv05	0*	0*	0*	0*	1*
Cartridges containing <= 10% of active data.. adv10	0*	0*	0*	0*	0*
Cartridges containing <= 15% of active data.. adv15	0*	0*	0*	0*	0*
Cartridges containing <= 20% of active data.. adv20	0*	0*	0*	0*	0*
Cartridges containing <= 25% of active data.. adv25	0*	0*	0*	0*	0*
Cartridges containing <= 30% of active data.. adv30	2*	3*	4*	3*	2*
Cartridges containing <= 35% of active data.. adv35	59*	61*	59*	63*	64*
Cartridges containing <= 40% of active data.. adv40	70*	70*	69*	73*	73*
Cartridges containing <= 45% of active data.. adv45	71*	74*	79*	74*	72*
Cartridges containing <= 50% of active data.. adv50	74*	72*	70*	66*	70*
Cartridges containing <= 55% of active data.. adv55	58*	57*	56*	58*	59*
Cartridges containing <= 60% of active data.. adv60	49*	47*	45*	46*	44*
Cartridges containing <= 65% of active data.. adv65	50*	54*	59*	57*	60*
Cartridges containing <= 70% of active data.. adv70	45*	49*	50*	50*	50*
Cartridges containing <= 75% of active data.. adv75	51*	49*	47*	51*	46*
Cartridges containing <= 80% of active data.. adv80	60*	62*	63*	57*	57*
Cartridges containing <= 85% of active data.. adv85	48*	43*	41*	45*	44*
Cartridges containing <= 90% of active data.. adv90	54*	50*	50*	44*	45*
Cartridges containing <= 95% of active data.. adv95	54*	60*	60*	62*	57*
Cartridges containing <=100% of active data.. adv00	84*	83*	87*	90*	93*
Total active cartridges.....	829*	834*	839*	839*	837*
Percentage of active data.....	64*	64*	64*	64*	64*



Daily VTS Activity - page 3 (PtP only)

1DAYPHYS GROUP: PTP1 -DAILY REPORT

VTSNUM=11111 *** Peer To Peer VTS***

VTSSTATS (05221)

TITLENAME VTSSTATS

L1/V1= (19123,B2594) L2/V2= (19510,B2706)

Run Date: 10:30 15AUG2005

Report Date 22MAY2005/01:02 to 26MAY2005

Channels(ES+FI=08 SCSI=00) DRIVES= 8/ 8

Data timestamp: 01:02:02

Logical Day Start hour: 00

-PAGE 3 OF 4-

TVC size=0864/0864GB

LM ref hour: 00

Reclaim threshold percentage.....see HOURPOLR thres

n/a n/a n/a n/a n/a

Number of cartridges that can be reclaimed... ..

n/a n/a n/a n/a n/a

DAILY VIRTUAL CONTROLLER ACTIVITY

Comp lib...max logical volumes to be copied.. cllvc

6* 11* 16* 16* 4*

Comp lib...max mbs of data yet to be copied.. cldte

3133* 5405* 10993* 10646* 3170*

Comp lib...mounts completed for vts-0..... clmt0

52 1209 2069 2467 267

Comp lib...mounts completed for vts-1..... clmt1

19 1101 1425 1232 240

DAILY VIRT.CONT. VTC ACTIVITY

Megabytes copied:.....vtc-0 cldc0

15799 80330 153938 104999 20508

Volumes copied:.....0 clvc0

21 408 712 697 97

Host read mbytes transferred:.....0 clrd0

0 169408 165908 272141 47946

Host write mbytes transferred:.....0 clwd0

46 130064 295487 280196 52581

Number of fast ready mounts:.....0 clcm0

0 349 490 452 91

Number of cache hit mounts:.....0 clsm0

2 208 200 222 37

Number of recall mounts:.....0 clrm0

0 64 209 304 0

Total mounts:.....0 ...

2 621 899 978 128

Megabytes copied:.....vtc-1 cldc1

13755 63098 147356 175551 22030

Volumes copied:.....1 clvc1

18 390 595 847 73

Host read mbytes transferred:.....1 clrd1

18 123554 376484 110397 96571

Host write mbytes transferred:.....1 clwd1

56042 141755 324360 159672 49413

Number of fast ready mounts:.....1 clcm1

28 349 476 433 89

Number of cache hit mounts:.....1 clsm1

4 142 270 142 70

Number of recall mounts:.....1 clrm1

0 51 175 274 0

Total mounts:.....1 ...

32 542 921 849 159

Megabytes copied:.....vtc-2 cldc2

6340 67351 139001 127425 20922

Volumes copied:.....2 clvc2

9 392 605 736 98

Host read mbytes transferred:.....2 clrd2

4 127979 187417 178401 39565

Host write mbytes transferred:.....2 clwd2

206 234666 371287 272962 43852

Number of fast ready mounts:.....2 clcm2

2 379 491 478 75

Number of cache hit mounts:.....2 clsm2

4 157 181 166 29

Number of recall mounts:.....2 clrm2

0 52 183 281 0

Total mounts:.....2 ...

6 588 855 925 104