



IBM TotalStorage®

TapeWise

August 17, 2005

Tape Usage Analyzer
Help to improve tape operations



Tape Usage Analyzer

- Input data
 - ▶ SMF 14, 15, 21, 30, (40) (same records as Batch Magic)
 - ▶ User control parameters
 - Date/time selection filters
 - Include/exclude by job, pgm, unit, dsn, etc
 - Use TGROUPE to name address ranges
 - Use VTSADDR= to identify VTS addresses to identify RECALL activity and candidates for UNIT=(TAPE,2)
 - RECALL reporting requires MOUNTMON data also, but is optional

Note: If you are using Batch Magic then also run this program.

Tape Usage Analyzer

- Some of the questions answered
 - ▶ How efficiently are we using tape?
 - Re-mounting same volser
 - Using UNIT=AFF
 - Using UNIT=(TAPE,2)
 - Allocating without open
 - Long allocation, little data
 - ▶ How many tape mounts are we doing?
 - ▶ How many GBs are we processing?
 - ▶ How many drives are we using?
 - ▶ Who is using too many drives?
 - ▶ Are we experiencing media errors?
 - ▶ How much allocation delay do we have?
 - ▶ What datasets are being recalled in the VTS?

Tape Usage Analyzer

- **Output Reports**
 - ▶ **AUDRPT** - tape activity analysis
 - ▶ **OVLRPT** - open overlaps probably from TOC clock differences
 - ▶ **CUARPT** - mounts and MBs processed by address
 - ▶ **HRSRPT** - mounts and MBs processed by hour
 - ▶ **#IORPT** - input and output mounts by hour
 - ▶ **GRPRPT** - mounts by TGROUP during hour
 - ▶ **SYSRPT** - mounts by SYSID during hour
 - ▶ **ERRRPT** - tape media errors by volser and address
 - ▶ **MAXRPT** - usage by job (stepname)
 - ▶ **ALCRPT** - allocation delay by job (stepname)
 - ▶ **USERRPT** - concurrent open drives used
 - ▶ **PGMRPT** - mounts and MBs processed by program name
 - ▶ **JOBRPT** - mounts and MBs processed by jobname
 - ▶ **ACTRPT** - mounts and MBs processed by account code
 - ▶ **DSNRPT** - mounts by data set name
 - ▶ **BLKRPT** - data sets using small block sizes
 - ▶ **LNGRPT** - long VTS mounts (recalls)
 - ▶ **SMFRPT** - SMF audit report
 - ▶ **VOLRPT** - Chronological volume use and times used distr
- You can request ALL reports or individual reports.

TapeWise Parameter examples

```

CUSTOMER=VTS USER GROUP ;           <= 1-50 CHARACTER DESCRIPTION
*REPORT= PGM99;
  REPORT= CUA ERR HRS ALC PGM25 JOB25 ACT DSN50 MAX USE AUD;
*HAVE40=YES;
*REPORT= ALL;
  MAXMB=2;
*SDATE=24APR2001;
*EDATE=24APR2001;
*
  CUA REPORTS DISMOUNTS BY ADDRESS FROM SMF 21
*
  HRS REPORTS DISMOUNTS BY HOUR FROM SMF 21
*
  ERR REPORTS ERROR VALUES FROM SMF 21
*
  ALC REPORTS ALLOCATION DELAY FROM SMF 30
*
  JOB REPORTS MOUNTS BY JOBNAME
*
  AUD REPORTS POSSIBLE AREAS OF IMPROVEMENT
*CLASSMAX= A 0;   <== MAX DRIVES ALLOWED BY THIS JOBCLASS
*CLASSMAX= C 4;   <== MAX DRIVES ALLOWED BY THIS JOBCLASS
*CLASSMAX= X 2;   <== MAX DRIVES ALLOWED BY THIS JOBCLASS
*CLASSMAX= R 3;   <== MAX DRIVES ALLOWED BY THIS JOBCLASS
  DETAIL=90;
  MAXDR=5;   <== DEFAULT MAX DRIVES IF NO MATCHING CLASSMAX VALUE
  EARLYCLOSE=00:10:00;   <== REPORT IF CLOSED > MM:SS BEFORE STEP END
  ALOCDELAY=00:10:00;   <== DETAIL IF ALOC DELAY IS GREATER THAN
  INTERVALSEC= 3600;   <== CONCURRENT ALOC SECONDS REPORTING INTERVAL
*
  ABOVE ALLOWED VALUES: 1,2,10,20,60,120,600,1200,3600
  HISTOGRAM=1;   <= ONLY SHOW HISTOGRAM LINE IF >= NN
*
  DEFAULT IS NO HISTOGRAM FOR USERPT AND ALCRPT
*
*
* TRY TO MAKE FIRST 4 CHARACTERS UNIQUE SINCE ONLY 4 USED ON AUDRPT
  TGROUP=VTS1      0D00 0D3F;
* TGROUP= VTS34    4380 43BF;      /* 64 ADDRESSES */
* TGROUP= REST     0000 FFFF;
*
*
* FOLLOWING NEEDED TO ALLOW PROGRAM TO IDENTIFY MULTI-VOLUME INPUTS
* THAT SHOULD TAKE ADVANTAGE OF UNIT=(TAPE,2)
VTSADDR= 0D00 0D3F;   <= CURRENT VTS ADDRESSES

```

TapeWise Parameter examples (cont)

```
*STARTSHIFT= 23:00:00; <= BEGINNING OF REPORTING WINDOW
*ENDSHIFT= 05:00:00; <= END OF REPORTING WINDOW
*
* INCLUDE/EXCLUDE PARAMETERS ONLY APPLY TO AUDRPT AND MAXRPT
*EXCJOB=DFHSM01;
*EXCJOB=VIEW*;
*EXCJOB=DMS*;
*
EXCPGM=IEFBR14;
EXCPGM=ADSMI002;
EXCPGM=ARCCTL;
*
*EXCPGM=VTSUTIL;
*EXCPGM=DSNYASCP;
*EXCPGM=FDR*;
*EXCPGM=DFSUARC0;
*
*EXCUNIT=123*;
*
*CONDITION= MULTIDRIVE MULTIMOUNT EARLYCLOSE NOOPEN UNITAFF
LONGALOC;
*CONDITION= ALL; <== CHOICES ARE: MULTIDRIVE MULTIMOUNT
EARLYCLOSE
* <== CHOICES ARE: NOOPEN UNITAFF DISPMOD
UNKNOWN
*CONDITION= EARLYCLOSE;
*CONDITION= UNITAFF;
*CONDITION= MULTIMOUNT;
*CONDITION= NOOPEN;
*CONDITION= NOCOMP;
CONDITION= RECALL;
MINALOC= 120; <== MINIMUM ALOC MINUTES FOR LONGALOC
*CONDITION= LONGALOC;
```

SMFRPT - SMF records by hour

```

TAPewise AUDIT OF SMF DATA                                RUN ON 16AUG2005 @ 12:43:58      1
OSL=SP6.1.0 FROM = 09NOV2002 @ 23:52:07                 TITLENAME TAPEWISE                LATEST TIMESTAMP = 11NOV2002 @ 0:06:25
0 SID  SMF_DATE DOW HR   SMF14   SMF15   SMF21  SMF30.2  SMF30.3  SMF30.4  SMF40  SMF94
ONAS1 10NOV2002 SU  0     84     207    226     1       2      132     3
                   1     48     243    92      7       57     3
                   2     2      31     25     1       7      9       3
                   3     8     117   120     109     3
                   4     52    199   252     151     3
                   5    128     17    146     79      3
                   6     47    141   186     58      3
                   7     91     38    129     29      3
                   8     12     67     63     10      3
                   9     47     60   105     2      43      3
                  10     17    197    72     6      27      3
                  11     12    161    27     1      13      3
                  12     10    110    36     17      3
                  13     46     83     55     3      5       3
                  14    118    146   136     12      3
                  15    107    128   132     7      10      3
                  16    239    365   281     6     154     3
                  17    177    214   212     2      91      3
                  18    157     15    170     1      56      3
                  19    116     43    124     14      3
                  20    102     51    188     3      67      3
                  21    120     68    188     3      74      3
                  22     53     52    115    19      16      3
                  23     30     12     41    21      9       3
NAS1 11NOV2002 MO  0     5      31     16     1      6
NAS1 SID TOTAL      1828  2796  3137  84     9     1248  72
                   SMF14  SMF15  SMF21  SMF30.2  SMF30.3  SMF30.4  SMF40  SMF94
OALL  SYS  TOTAL    1828  2796  3137  84     9     1248  72

```

Run this report to make sure you or your customer have collected the necessary SMF record types.

SMFRPT - detail SMF 14,15,21

```

1 (C) IBM REPORT=SMFRPT (05228)                                TAPEWISE AUDIT OF SMF DATA                                RUN ON 16AUG2005 @ 12:43:58                                2
OSL=SP6.1.0 FROM = 09NOV2002 @ 23:52:07 TITLENAME TAPEWISE LATEST TIMESTAMP = 11NOV2002 @ 0:06:25
* AFTER VOLSER MEANS NO SMF21. ? AFTER VOLSER MEANS MULTIPLE 21S. LOOK FOR RD>, WR>, RD=, WR=, BAD, OR NEG UNDER THE CHK HEADING.
0 CUA=0B35(3480 ) VOL FI BLKCNT OPTIME DS_SER DDNAME DDNAME JOBNAME STEPNAME PGMNAME JOBNUMBR
DATEDOW SMF_TIME SID TY DISP SQ SQ VOLSER CHK OR_#_SIO OR RD4K OR WR4K OR RDMB OR WRMB DSNAME
010NOVSU 0:21:58 NAS1 15 NEW 1 1 Z07798 87 0:21:38 Z07798 SYSUT2 PNASC.HRBAT.HISTCHDM.G0192V00
10NOVSU 0:21:59 NAS1 .4 0:21:38 NARJH02W PS230 WAAPDSUT JOB28128
10NOVSU 0:21:59 NAS1 21 Z07798 77 1 680 0.0 2.6
10NOVSU 0:31:46 NAS1 15 NEW 1 1 Z09466 1 0:31:28 Z09466 SYSUT2 PNASC.HRBAT.HISTBADM.G0254V00
10NOVSU 0:31:47 NAS1 .4 0:31:28 NARJH01W PS106 WAAPDSUT JOB28127
10NOVSU 0:32:17 NAS1 21 Z09466 41 1 1 0.0 0.0
10NOVSU 0:32:45 NAS1 15 NEW 1 1 Z00580 1 0:32:17 Z00580 SYSUT2 PNASC.HRBAT.HISTPRDM.G0253V00
10NOVSU 0:32:46 NAS1 .4 0:32:17 NARJH01W PS108 WAAPDSUT JOB28127
10NOVSU 0:32:47 NAS1 21 Z00580 42 1 1 0.0 0.0
10NOVSU 0:36:41 NAS1 15 NEW 1 1 Z04864 66 0:36:11 Z04864 HRHN004 PNASC.HRBAT.HISTCCDM.G0162V00
10NOVSU 0:36:42 NAS1 21 Z04864 106 1 518 0.0 2.0
10NOVSU 0:36:42 NAS1 .4 0:36:10 NARJH02W PS330 HRHPRHIX JOB28128
10NOVSU 1:05:27 NAS1 15 NEW 1 1 Z01053 2933 1:04:51 Z01053 SYSUT2 PNARJ.HRXAT.AWSC301K.G0338V00
10NOVSU 1:05:38 NAS1 21 Z01053 630 1 10813 0.0 42.2
10NOVSU 1:05:38 NAS1 .4 1:04:51 NARJXSC6 PS840 WAAPDSUT JOB28237
10NOVSU 1:06:07 NAS1 15 NEW 1 1 Z07132 694 1:05:38 Z07132 SYSUT2 PNARJ.HRXAT.AWSC441K.G0668V00
10NOVSU 1:06:11 NAS1 21 Z07132 184 1 2559 0.0 9.9
10NOVSU 1:06:11 NAS1 .4 1:05:38 NARJXSC6 PS860 WAAPDSUT JOB28237

```

Run this report if you suspect some discrepancy in the 14, 15 or 21 records.

AUDRPT Legend

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1 (C) IBM REPORT=AUDRPT (05228) TAPEWISE ANALYSIS OF TAPE ACTIVITY RUN ON 16AUG2005 @ 13:28:15 1
  OSL=SP6.1.0 FROM = 09NOV2002 @ 23:52:07 TITLENAME TAPEWISE LATEST TIMESTAMP = 11NOV2002 @ 0:06:25
0
0 ALC, NO OPEN CONDITION EXPLANATION AND POSSIBLE REMEDIES
  AN SMF 30 RECORD INDICATED THAT A DRIVE WAS ALLOCATED, BUT NO MATCHING 14/15 RECORD WAS FOUND. THIS SUGGESTS
  THAT THE JCL CONTAINED A DD STATEMENT FOR THE DRIVE TO BE ALLOCATED, BUT THE PROGRAM NEVER OPENED THE FILE.
  IT IS LIKELY THAT THE JCL USED UNIT=(TAPE,,DEFER) WHICH PREVENTED THE MOUNT FROM BEING ISSUED, BUT THE DRIVE
  WAS STILL ALLOCATED FOR THE ENTIRE JOBSTEP.
0 MNT, NO OPEN SAME AS ABOVE EXCEPT THAT UNIT=(TAPE,,DEFER) WAS NOT SPECIFIED AND AN UN-USED VOLUME WAS ACTUALLY MOUNTED.
0 UNKNOWN KEEP AN SMF 21 WAS ENCOUNTERED THAT COULD NOT BE MATCHED TO AN SMF 14/15/30. COULD HAVE OCCURRED DURING AN IPL
  WHEN A VARY OFFLINE WAS ISSUED TO THE NON-SHARED DRIVES.
0 RE-MOUNT THE SAME VOLSER HAS BEEN SEEN MOUNTED MULTIPLE TIMES WITHIN THE SAME JOBSTREAM. PROBABLY BECAUSE THE JCL
  DID NOT SPECIFY VOL=(,RETAIN) WHEN IT WAS FIRST CREATED OR USED.
0 AFF/DDNAME TWO TAPE DATA SETS WERE SEEN WITHIN THE JOBSTEP ON DIFFERENT DRIVE ADDRESSES, BUT NOT OPEN AT THE SAME TIME.
  THE LINE INDICATES THE DDNAME THAT THIS FILE COULD HAVE BEEN AFFINITIED TO IN ORDER TO REDUCE THE NUMBER OF
  CONCURRENTLY ALLOCATED DRIVES. E.G. UNIT=AFF=SORTIN IS COMMONLY MISSED FOR SORTOUT
0 EARLY CLOSE INDICATES TAPE DATA SETS THAT ARE CLOSED MORE THAN NN MINUTES (USER PARAMETER) BEFORE THE STEP ENDS. IF THE
  FREE=CLOSE PARAMETER HAD BEEN USED, THE DRIVE WOULD HAVE BEEN MADE AVAILABLE FOR OTHER JOBS TO USE BEFORE THE
  STEP ENDED.
0 TAPE,N A TAPE DATA SET (NOT A VTS INPUT) WAS FOUND USING UNIT=(TAPE,2) WHICH IS PROBABLY A CARRY OVER FROM WHEN THE
  DATA SET WAS ON MANUAL 3480 DRIVES AND THE USER DID NOT WANT TO WAIT FOR A TAPE TO BE RE-WOUND AND UNLOADED
  BEFORE THEY COULD START PROCESSING THE NEXT VOLUME OF A MULTI-VOLUME CHAIN.
0 USE TAPE,2 THIS IS A RECOMMENDATION TO USE THE UNIT=(TAPE,2) PARAMETER FOR MULTI-VOLUME VTS INPUT DATA SETS SO THE
  RECALL PROCESS FOR THE NEXT VOLUME CAN TAKE PLACE WHILE THE CURRENT VOLUME IS BEING PROCESSED. THIS COULD
  SIGNIFICANTLY REDUCE THE ELAPSED PROCESSING TIME FOR THE JOB.
0 WRONG VOL? AN SMF 21 WAS SEEN FOR A VOLUME, DURING THE ALLOCATION PERIOD FOR A JOB THAT EVENTUALLY USED A DIFFERENT
  VOLUME ON THAT SAME ADDRESS. IT IS POSSIBLE THAT A DELETED VOLUME WAS LEFT ON A DRIVE WHERE A SPECIFIC
  REQUEST WAS NOW BEING MADE.
0 LONGALOC A TAPE DATA SET WAS OPEN FOR LONGER THAN MINALOC=NNN MINUTES (USER PARAMETER) AND TRANSFERRED LESS THAN .2
  MEGABYTES PER SECOND. THIS DRIVE WAS ALLOCATED FOR A LONG TIME AND DID VERY LITTLE DATA TRANSFER. BETTER
  USE OF THE DRIVE WOULD BE TO DIRECT THE DATA SET TO DISK AND USE IEBCGENER TO COPY IT TO TAPE IN A LATER STEP.
0 DISP=MOD THIS DATA SET WAS SEEN USING DISP=MOD. IF YOU ARE CONSIDERING UPGRADING TAPE DEVICES, CONSIDERATION NEEDS
  TO BE GIVEN TO THESE FILES IF THE MEDIA TYPE IS NOT WRITE CAPABLE ON THE NEW DEVICE.
0 MULTIFILE THIS DATA SET WAS PART OF A MULTI-FILE VOLUME. NORMAL DRIVE START/STOP OPERATIONS FOR FILE MARK PROCESSING WILL
  DEGRADE PERFORMANCE. HOWEVER, THE A60 WITH 3590 DRIVES IS OPTIMIZED TO IMPROVE THROUGHPUT PERFORMANCE.
0 NO SMF 21 THE PROGRAM HAS DETERMINED THAT A MOUNT MUST HAVE OCCURRED, BUT THERE IS NO CORRESPONDING SMF 21.
  EITHER THEY WERE NOT PART OF THE ANALYSIS, OR THE SYSTEM DID NOT GENERATE ONE FOR SOME UNKNOWN REASON.
0 NOCOMP TAPE THIS DATA SET WAS SEEN USING TRTCH=NOCOMP. YOU ARE SACRIFICING VOLUME CAPACITY. IT MIGHT HAVE BEEN
  REQUIRED FOR DATA INTERCHANGE IN THE PAST, BUT IS NO LONGER A REQUIREMENT.
0 RECALL MOUNT THE MOUNT PENDING TIME DETERMINED BY MOUNTMON IS GREATER THAN THE USER SPECIFIED LIMIT. FOR VTS
  DRIVE ADDRESSES, THEY WERE LIKELY RECALL MOUNTS. REPORT COLUMN HEADINGS ARE MODIFIED FOR CREATE AND READ DATES.

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AUDRPT areas for improvement

1 (C) IBM REPORT=AUDRPT (05228)		TAPEWISE ANALYSIS OF TAPE ACTIVITY										RUN ON 16AUG2005 @ 13:28:15		23			
OSL=SP6.1.0 FROM = 09NOV2002 @ 23:52:07		TITLENAME TAPEWISE										LATEST TIMESTAMP = 11NOV2002 @ 0:06:25					
0	JOBNAME	JESNO	STEPNAME	STP	CRDTDE/	READDTE/	NO	PGMNAME	DDNAME	SID	TGRP	ADDR	VOLSER	CONDITION	TIMES	HH:MM:SS	DSNAME
	ONARJHL90	29718	NPS020	4	09NOV02	10NOV02		NAS1	VTS1	1002	U22897	RECALL MOUNT	1	3:13	PNARJ.HRHMA.MMOTH767.G0181V00		
	NARJHL90	29718	NPS020	10	09NOV02	10NOV02		NAS1	VTS2	1126	U77281	RECALL MOUNT	1	18:21	PNARJ.HRHMA.MMOTH768.G0155V00		
	ONARJHTMO	30259	JS010	1	11NOV02	10NOV02		NAS1	VTS2	111C	U65169	RECALL MOUNT	0	2:54	MOUNTMON RECORD WITHOUT SMF 14/15		
	NARJHTMO														*MLTFIL= 4380		
	ONARJHTMO	30259	PS005	1	SORT	SORTOUT		NAS1	3480	0B36	Z07890	LONGALOC		15	PNARJ.HRHB.U.MWTXH060.G0617V00		
	ONARJHXAN	29033	PS002	1	HRHPFIXC	HRHNI001		NAS1	VTS1	102A	U01669	USE TAPE,2	2		PNASC.HRHMA.MWME834C.G0577V00		
	NARJHXAN	29033	PS004	2	09NOV02	10NOV02		NAS1	VTS2	1136	U69082	RECALL MOUNT	1	3:11	PNASC.HRHMA.MWME834I.G0040V00		
	ONARJHXIC	30015	PS010	1	WAAPDSUT	SYSUT1		NAS1	VTS1	101B	U10788	AFF/SYSUT1			PNASC.HRHMA.MMMIHXMI.G0173V00		
	NARJHXIC	30015	PS010	1	WAAPDSUT	SYSUT2		NAS1	VTS2	112E	U66252	RE-MOUNT			PNASC.HRBAT.HISTXREF.ACTP803.G0177V00		
	NARJHXIC	30015	PS010	1	WAAPDSUT	SYSUT3		NAS1	VTS1	1024	U11056	RE-MOUNT			PNASC.HRBAT.HISTXREF.ACTP710.G0177V00		
	NARJHXIC	30015	PS020	2	SORT	SORTIN		NAS1	VTS2	111D	U66252	RE-MOUNT			PNASC.HRBAT.HISTXREF.ACTP803.G0177V00		
	NARJHXIC	30015	PS020	2	SORT	SORTOUT		NAS1	VTS1	1012	U11094	RE-MOUNT			PNASC.HRBAT.HISTSORT.MMNYHXNY.G0178V00		
	NARJHXIC														*AFF/SORTIN		
	NARJHXIC	30015	PS030	3	SORT	SORTIN		NAS1	VTS1	1025	U11056	RE-MOUNT			PNASC.HRBAT.HISTXREF.ACTP710.G0177V00		
	NARJHXIC	30015	PS030	3	SORT	SORTOUT		NAS1	VTS1	1031	U02219	RE-MOUNT			PNASC.HRBAT.HISTSORT.MMMIHXMI.G0177V00		
	NARJHXIC														*AFF/SORTIN		
	NARJHXIC	30015	PS040	4	SORT	SORTOUT		NAS1	VTS2	1139	U58069	AFF/SORTIN			PNASC.HRBAT.HISTSORT.MMOTHXOT.G0177V00		
	NARJHXIC	30015	NPS080	8	WAAPVSM	SYSUT1		NAS1	VTS1	1031	U11094	RE-MOUNT			PNASC.HRBAT.HISTSORT.MMNYHXNY.G0178V00		
	NARJHXIC	30015	NPS100	10	WAAPVSM	SYSUT1		NAS1	VTS1	100B	U02219	RE-MOUNT			PNASC.HRBAT.HISTSORT.MMMIHXMI.G0177V00		
	ONARJHX1O	29977	NPS050	6	HRHP980C	HRHN9800		NAS1	VTS1	1031	U02113	USE TAPE,2	2		PNARJ.HRHMA.MMOTXX01.G0350V00		
	ONARJHX2M	29972	PS014	3	SORT	SORTOUT		NAS1	VTS1	1028	U10640	RE-MOUNT			PNARJ.HRHMA.MMMIXX02.G0009V00		
	NARJHX2M	29972	NPS020	4	HRHP980C	HRHN9815		NAS1	VTS1	1030	U10640	RE-MOUNT			PNARJ.HRHMA.MMMIXX02.G0009V00		
	NARJHX2M	29972	NPS020	4	HRHP980C	HRHN9800		NAS1	VTS2	1109	U66102	USE TAPE,2	2		PNARJ.HRHMA.MMMIXX01.G0009V00		
	ONARJH00M	29534	PS020	2	SORT	SORTOUT		NAS1	VTS2	1115	U55891	RE-MOUNT			PNASC.HRBBU.HISTRECV.AW511802.G0345V00		
	NARJH00M	29534	PS030	3	WAAPDSUT	SYSUT1		NAS1	VTS2	1133	U55891	RE-MOUNT			PNASC.HRBBU.HISTRECV.AW511802.G0345V00		
	NARJH00M	29534	PS065	7	COBPINIT	HRRN0001		NAS1	VTS2	1117	U70798	USE TAPE,2	2		PNARJ.HRHMA.MWSCH060.G0638V00		
	ONARJH01D	28112	PS060	7	HRRPSEXC	HRRN0020		NAS1	VTS2	1132	U55914	RE-MOUNT			PNASC.HRBJW.REPTXTRC.G1994V00		
	NARJH01D	28112	PS070	8	SORT	SORTIN		NAS1	VTS2	1134	U55914	RE-MOUNT			PNASC.HRBJW.REPTXTRC.G1994V00		
	NARJH01D	28112	PS070	8	SORT	SORTOUT		NAS1	VTS2	1137	U68469	RE-MOUNT			PNASC.HRBJW.REPTSORT.G0396V00		
	NARJH01D														*AFF/SORTIN		
	NARJH01D	28112	PS080	9	IKJEFT1B	HRRN0010		NAS1	VTS2	111E	U68469	RE-MOUNT			PNASC.HRBJW.REPTSORT.G0396V00		

0 LINES WITH AN '*' BEFORE THE CONDITION ARE SHOWING ANOTHER CONDITION FOR THE LINE ABOVE IT.

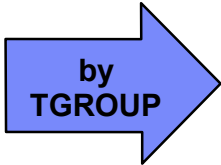
AUDRPT summary

```

1 (C) IBM REPORT=AUDRPT (05228)                TAPEWISE ANALYSIS OF TAPE ACTIVITY                RUN ON 16AUG2005 @ 13:28:15                66
OSI=SP6.1.0 FROM = 09NOV2002 @ 23:52:07 _____ TITLENAME TAPEWISE _____ LATEST TIMESTAMP = 11NOV2002 @ 0:06:25
0
0                                     TIMES
0                                     SEEN  CONDITION
0                                     1    ALC, NO OPEN
0                                     0    MNT, NO OPEN
0                                     12   UNKNOWN KEEP
0                                     290  RE-MOUNT
0                                     116  AFF/DDNAME
0                                     42   EARLY CLOSE
0                                     0    TAPE,N
0                                     99   USE TAPE,2
0                                     14   WRONG VOL?
0                                     259  LONGALOC
0                                     0    DISP=MOD
0                                     1255 MULTIFILE
0                                     0    NO SMF 21
0                                     0    NOCOMP TAPE
0                                     877  RECALL MOUNT
0
[]

```

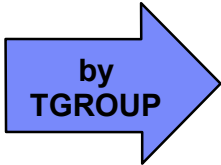
CUARPT - Mounts and MBs processed by address.



```

1 (C) IBM REPORT=CUARPT (05228)                                TAPEWISE MOUNTS BY ADDRESS ANALYSIS                                RUN ON 16AUG2005 @ 12:44:03
1
OSL=SP6.1.0 FROM = 09NOV2002 @ 23:52:07 TITLENAME TAPEWISE LATEST TIMESTAMP = 11NOV2002 @
0:06:25
OTGROUP ADDR OLD RD + OLD WR + MOD= SPECFC SCRATCH TOTAL MB_READ MB_WRITE MB_MOD MB_TOTAL
VTS1 1000 14 0 0 0 14 3 17 25406 136 0 25542
VTS1 1001 11 0 0 0 11 6 17 23330 13246 0 36576
VTS1 1002 10 0 0 0 10 1 11 16216 0 0 16216
VTS1 1003 5 0 0 0 5 5 10 3705 5026 0 8731
VTS1 1004 8 0 0 0 8 7 15 11679 5729 0 17408
VTS1 1005 5 0 0 0 5 10 15 10442 10814 0 21256
VTS1 1006 4 0 0 0 4 11 15 2622 8546 0 11168
VTS1 1007 8 0 0 0 8 17 25 16206 32556 0 48762
VTS1 1008 6 0 0 0 6 8 14 4088 11744 0 15832
VTS1 1009 12 0 0 0 12 10 22 16454 23328 0 39782
VTS1 100A 14 0 0 0 14 11 25 23435 21999 0 45434
VTS1 100B 4 0 0 0 4 11 15 1281 25604 0 26885
VTS1 100C 5 0 0 0 5 8 13 1511 22795 0 24306
VTS1 100D 14 0 0 0 14 6 20 26515 8183 0 34698
VTS1 100E 26 0 0 0 26 10 36 51612 24235 0 75847
VTS1 100F 4 0 0 0 4 3 7 7779 5732 0 13511
VTS1 1010 3 0 0 0 3 5 8 6182 3531 0 9713
VTS1 1011 7 0 0 0 7 4 11 12015 11429 0 23444
VTS1 1012 14 0 0 0 14 15 29 29616 32550 0 62166
VTS1 1013 13 0 0 0 13 9 22 15962 14347 0 30309
VTS1 1014 5 0 0 0 5 8 13 6914 9228 0 16142
VTS1 1015 3 0 0 0 3 5 8 4057 4059 0 8116
VTS1 1016 7 0 0 0 7 8 15 14182 11161 0 25343
VTS1 1017 14 0 0 0 14 8 22 25936 14232 0 40168
VTS1 1018 9 0 0 0 9 27 36 13581 56175 0 69756
VTS1 1019 15 0 0 0 15 3 18 29636 2142 0 31778
VTS1 101A 10 0 0 0 10 9 19 18393 16450 0 34843
.
VTS1 1035 1 0 0 0 1 3 4 0 8093 0 8093
VTS1 1036 3 0 0 0 3 1 4 3263 315 0 3578
VTS1 1037 2 0 0 0 2 0 2 1016 0 0 1016
VTS1 1038 6 0 0 0 6 0 6 4809 0 0 4809
VTS1 1039 0 0 0 0 0 1 1 0 1914 0 1914
VTS1 103B 0 0 0 0 0 2 2 0 4083 0 4083
( 58) 525 0 0 525 403 928 829181 652340 0 1481521
    
```

CUARPT - MBs written per mount.

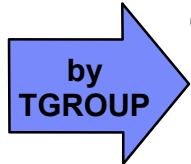


```

1 (C) IBM REPORT=CUARPT (05228)
OSL=SP6.1.0 FROM = 09NOV2002 @ 23:52:07
0
TGROUP SIZE RANGE WRITE WRITE RANGE
MOUNTS ACCUM PERCENT ACUM%
0VTS1 000MB-001MB 73 73 18.1% 18.1%
>001MB-002MB 2 75 0.4% 18.6%
>002MB-003MB 5 80 1.2% 19.8%
>003MB-004MB 2 82 0.4% 20.3%
>004MB-005MB 0 82 0.0% 20.3%
>005MB-006MB 0 82 0.0% 20.3%
>006MB-007MB 1 83 0.2% 20.5%
>007MB-008MB 0 83 0.0% 20.5%
>008MB-009MB 1 84 0.2% 20.8%
>009MB-010MB 1 85 0.2% 21.0%
>010MB-020MB 1 86 0.2% 21.3%
>020MB-030MB 0 86 0.0% 21.3%
>030MB-040MB 5 91 1.2% 22.5%
>040MB-050MB 2 93 0.4% 23.0%
>050MB-060MB 2 95 0.4% 23.5%
>060MB-070MB 2 97 0.4% 24.0%
>070MB-080MB 1 98 0.2% 24.3%
>080MB-090MB 1 99 0.2% 24.5%
>090MB-100MB 1 100 0.2% 24.8%
>100MB-150MB 9 109 2.2% 27.0%
>150MB-200MB 4 113 0.9% 28.0%
>200MB-300MB 11 124 2.7% 30.7%
>300MB-400MB 11 135 2.7% 33.4%
>400MB-500MB 8 143 1.9% 35.4%
>500MB-600MB 5 148 1.2% 36.7%
>600MB-700MB 5 153 1.2% 37.9%
>700MB-800MB 6 159 1.4% 39.4%
>800MB-900MB 6 165 1.4% 40.9%
>900MB-1.0GB 2 167 0.4% 41.4%
>1.0GB-1.5GB 12 179 2.9% 44.4%
>1.5GB-2.0GB 48 227 11.9% 56.3%
>2.0GB-3.0GB 64 291 15.8% 72.2%
>3.0GB-4.0GB 103 394 25.5% 97.7%
>4.0GB-5.0GB 7 401 1.7% 99.5%
>5.0GB-6.0GB 2 403 0.4% 100.0%
    
```

TAPEWISE DISTRIBUTION OF MBS WRITTEN/MOUNT
 TITLENAME TAPEWISE
 RUN ON 16AUG2005 @ 12:44:03 3
 LATEST TIMESTAMP = 11NOV2002 @ 0:06:25

HRSRPT - Mounts and MBs processed by hour.



```

1 (C) IBM REPORT=HRSRPT (05228)                                TAPEWISE MOUNTS BY HOUR ANALYSIS                                RUN ON 16AUG2005 @ 12:44:05                                1
OSL=SP6.1.0 FROM = 09NOV2002 @ 23:52:07                      TITLENAME TAPEWISE                                          LATEST TIMESTAMP = 11NOV2002 @ 0:06:25
0                                                                                                     AVG MB
TGROUP  DATE  DOW HR  OLD_RD  OLD_WR  + MOD= SPECFC SCRATCH  TOTAL  MB_READ  MB_WRITE  MB_MOD  MB_TOTAL  WRT/VOL  RECALLS
VTS1    10NOV02 SU 00      35      0      0      35      55      90      40977  93630      0      134607  1702      6
          01      19      0      0      19      19      38      22991  26488      0      49479  1394      2
          02      0      0      0      0      0      6      6      6      0      2528      0      2528  421      0
          03      7      0      0      0      7      52      59      8170  59767      0      67937  1149      2
          04      31     0      0      0      31     71     102     81131  134796     0     215927  1898      0
          05     90     0      0      0     90     9      99     142574  22505      0     165079  2500      1
          06     27     0      0      0     27     47     74     68585  125180     0     193765  2663      1
          07     34     0      0      0     34     0      34     84992      0      0     84992      0      0
          08      9     0      0      0      9      2     11     26199      0      0     26199      0      0
          09     24     0      0      0     24     7      31     19746     4324      0     24070     617      2
          10      9     0      0      0      9      9      18     13038     14346      0     27384     1594      3
          11      7     0      0      0      7      5     12     13285     9378      0     22663     1875      1
          12      2     0      0      0      2     12     14     2393     18030      0     20423     1502      0
          13      1     0      0      0      1      7      8      0     16070      0     16070     2295      1
          14      3     0      0      0      3      5      8     6892     11235      0     18127     2247      0
          15     15     0      0      0     15     0     15     32136      0      0     32136      0      0
          16     54     0      0      0     54     31     85     71349     9432      0     80781     304     19
          17     31     0      0      0     31     6     37     50649     4872      0     55521     812      8
          18     56     0      0      0     56     2     58     77104     1575      0     78679     787     38
          19     27     0      0      0     27     6     33     15578     10767     0     26345     1794     15
          20      6     0      0      0      6     15     21     5984     30748      0     36732     2049      1
          21     27     0      0      0     27     15     42     21363     12159     0     33522     810      0
          22      8     0      0      0      8      7     15     16908     306      0     17214     43      0
          23      1     0      0      0      1      1      2     1318      3      0     1321      3      0
          TOT     523     0      0      0     523    389    912    823372    608147     0    1431519      100
VTS1    TOTAL      525     0      0      525    403    928    829182    652341     0    1481523      100
    
```


SYSRPT - SYSID mounts processed by hour.

```

1 (C) IBM REPORT=SYSRPT (05228) TAPWISE MOUNTS BY SYSID DURING HOUR RUN ON 17AUG2005 @ 10:54:44 1
OSL=SP7.0.2 FROM = 01FEB2003 @ 0:01:39 TESTING WORKLOAD LATEST TIMESTAMP = 03FEB2003 @ 23:56:42
SCALE= 5:1 MOUNT ACCUM 1 2 3 4 5 6 7 8 9 0
DATE HR REQUEST MOUNTS -----0-----0-----0-----0-----0-----0-----0-----0-----0-----0
0 02FEB03 00 96 96 YXXXXA222222221111
01 79 175 XXX22222221111
02 120 295 XXXX2222222222221111
03 109 404 XX2222222222221111
04 75 479 22222222221111
05 69 548 2222222222111
06 31 579 222111
07 18 597 2111
0 08 4 601 2
09 31 632 XX2222
10 6 638 2
11 5 643 2
12 5 648 2
13 22 670 XX22
14 9 679 21
15 15 694 111
0 16 5 699 1
17 13 712 XX2
18 3 715 2
19
20 14 729 XXX
21 2 731
22 2 733
23 22 755 XXX2
01=PRD1 2=PRD2 A=SYS1 B=SYS2 X=TST1 Y=TST2 ?=NOSYMBOL
|
  
```


#IORPT - Input/output mounts processed by hour.

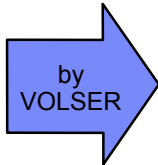
```

1 (C) IBM REPORT=#IORPT (05228) TAPWISE MOUNTS BY -I/O- DURING HOUR RUN ON 16AUG2005 @ 12:44:05 1
OSL=SP6.1.0 FROM = 09NOV2002 @ 23:52:07 TITLENAME TAPEWISE LATEST TIMESTAMP = 11NOV2002 @ 0:06:25
TGROUP=VTS1 MOUNT ACCUM 5:1 1 2 3 4 5 6 7 8 9 0
DATE HR REQUEST MOUNTS -----0-----0-----0-----0-----0-----0-----0-----0-----0-----0
0 10NOV02 00 90 90 IIIIIIIIOOOOOOOOOO
01 38 128 IIIIOOOO
02 6 134 O
03 59 193 IOOOOOOOOOO
04 102 295 IIIIIIIIOOOOOOOOOOOO
05 99 394 IIIIIIIIIIIIIIIIIIOO
06 74 468 IIIIIOOOOOOOOOO
07 34 502 IIIIIII
0 08 11 513 II
09 31 544 IIIIO
10 18 562 IIOO
11 12 574 IO
12 14 588 OOO
13 8 596 OO
14 8 604 IO
15 15 619 III
0 16 85 704 IIIIIIIIIIIIOOOOOO
17 37 741 IIIIIO
18 58 799 IIIIIIIIIIO
19 33 832 IIIIIIO
20 21 853 IOOO
21 42 895 IIIIIOOO
22 15 910 IIO
23 2 912

```

ERRRPT - Media errors by volser and address.

Is it a media problem or is it a drive problem?



(C) IBM REPORT=ERRRPT (02031) TAPEWISE ERROR REPORTING FROM SMF 21 RUN ON 01FEB2002 @ 13:24:27 1
 EARLIEST TIMESTAMP = 23APR2001 @ 0:05:03 VTS USER WORKLOAD LATEST TIMESTAMP = 25APR2001 @ 0:08:36
 TGROUP=3480 TEMP TEMP TEMP

VOLSER	KEEP CUA	KEEP DATE	DOW	HH:MM:SS	MB READ	MB WRITE	JOBNAME	COMP CODE	TEMP READ	TEMP WRITE	NOISE BLKS	ERASE GAPS	TAPE CLEAN	READ FWRD	READ BKWD	WRITE FWRD	PERM READ	PERM WRITE
197012	0B31	23APR01	MO	5:12:58	50649.4	58159.5	ZBOT128T		0	0	0	3870	0	0	0	0	0	0
197015	0B30	23APR01	MO	22:12:05	63219.2	16448.2	UNKNOWN		0	0	0	130	0	0	0	0	0	0
197015*	0B32	24APR01	TU	16:01:03	62195.9	61948.5	ZBODIMOP		0	0	0	258	0	0	0	0	0	0
197056	0B32	24APR01	TU	2:35:15	24672.3	24678.4	ZBOT131T		0	0	0	258	0	0	0	0	0	0
197102	0B31	23APR01	MO	3:24:23	63993.9	16472.0	ZBOT128T		0	0	0	387	0	0	0	0	0	0
197122	0B33	24APR01	TU	15:30:50	16448.2	16448.2	ZN26IF7U		0	0	0	1	0	0	0	0	0	0
197125	0B31	24APR01	TU	23:34:09	62976.7	3.0	ZBOJLIMIT		0	0	0	1	0	0	0	0	0	0
197126	0B32	24APR01	TU	23:35:18	16448.7	57920.2	ZBOJLIMIT		0	0	0	1	0	0	0	0	0	0
197146	0B33	24APR01	TU	23:31:10	62976.7	22.4	ZN01RDHS		0	0	0	37539	0	0	0	0	0	0
197153	0B31	23APR01	MO	2:26:10	61943.9	61880.0	ZBOT128T		0	0	0	3225	0	0	0	0	0	0
197162	0B31	23APR01	MO	5:39:48	16448.2	16503.8	ZBOT128T		0	0	0	903	0	0	0	0	0	0

0.6% OR 34 VOLUMES OF THE 5055 DIFFERENT VOLSERS SEEN, HAD MEDIA ERRORS GREATER THAN THE THRESHOLDS SPECIFIED.



(C) IBM REPORT=ERRRPT (02031) TAPEWISE ERROR REPORTING FROM SMF 21 RUN ON 01FEB2002 @ 13:24:27 1
 EARLIEST TIMESTAMP = 23APR2001 @ 0:05:03 VTS USER WORKLOAD LATEST TIMESTAMP = 25APR2001 @ 0:08:36
 TGROUP=3480 TEMP TEMP TEMP

CUA	VOLSER	KEEP DATE	KEEP DOW	HH:MM:SS	MB READ	MB WRITE	JOBNAME	COMP CODE	TEMP READ	TEMP WRITE	NOISE BLKS	ERASE GAPS	TAPE CLEAN	READ FWRD	READ BKWD	WRITE FWRD	PERM READ	PERM WRITE
0B30	197015	23APR01	MO	22:12:05	63219.2	16448.2	UNKNOWN		0	0	0	130	0	0	0	0	0	0
0B30	197509	24APR01	TU	0:01:05	16448.2	16448.2	UNKNOWN		0	0	0	130	0	0	0	0	0	0
0B30	197528	25APR01	WE	0:01:05	61685.9	63984.3	UNKNOWN		0	0	0	130	0	0	0	0	0	0
0B31	197153	23APR01	MO	2:26:10	61943.9	61880.0	ZBOT128T		0	0	0	3225	0	0	0	0	0	0
0B31	197539	23APR01	MO	3:17:34	16627.9	62176.5	ZBOT128T		0	0	0	3870	0	0	1	0	0	0
0B31	197102	23APR01	MO	3:24:23	63993.9	16472.0	ZBOT128T		0	0	0	387	0	0	0	0	0	0
0B31	197012	23APR01	MO	5:12:58	50649.4	58159.5	ZBOT128T		0	0	0	3870	0	0	0	0	0	0
0B31	197162	23APR01	MO	5:39:48	16448.2	16503.8	ZBOT128T		0	0	0	903	0	0	0	0	0	0
0B31	197168	23APR01	MO	5:44:45	55237.2	54982.2	ZBOT131T		0	0	0	1	0	0	0	0	0	0
0B31	197187	23APR01	MO	14:21:33	55104.2	16448.2	UNKNOWN		0	0	0	130	0	0	0	0	0	0

MAXRPT - Maximum drive allocation by job (stepname) within JOB class.

Which JOBS are using too many tape drives?

(C) IBM REPORT=MAXRPT (01118) TAPEWISE UTILITY - CONCURRENT OPEN ALLOCATION RUN ON 03MAY2001 @ 7:05:22 1
 EARLIEST TIMESTAMP = 22APR2001 @ 13:00:01 _____ VTS USER GROUP _____ LATEST TIMESTAMP = 25APR2001 @ 0:08:36

JOBNAME	JESNO	STEPNAME	PGMNAME	END DATE	END HH:MM:SS	MVS SID	ALOC DRIVES	JOB CLS	SHOP MAX
ZBI1700	27935	IF810P20	IF807	24APR2001	16:46:49	90#B	7	A	6
ZCM1308	0	PS010	IFASMFDP	24APR2001	1:17:57	90#B	8	.	6
ZDP6806D	24064	SARPAC	SARPAC	23APR2001	22:23	90#B	8	A	6
ZSX1DRB	32878			24APR2001	8:48:03	90#B	7	B	6

(C) IBM REPORT=MAXRPT (01118) TAPEWISE UTILITY - CONCURRENT OPEN ALLOCATION RUN ON 03MAY2001 @ 7:05:22 2
 EARLIEST TIMESTAMP = 22APR2001 @ 13:00:01 _____ VTS USER GROUP _____ LATEST TIMESTAMP = 25APR2001 @ 0:08:36

MAX ALLOC	NUMBER OF STEPS
1	5679
2	337
3	91
4	23
5	9
6	2
7	2
8	2

ALCRPT - Jobs experiencing tape allocation delay.

**Causes of delay: 1) not enough tape drives 2) DFHSM recall
3) more than one request for same VOLSER**

(C) IBM REPORT=ALCRPT (00264) TAPEWISE - ALLOCATION DELAY ANALYSIS RUN ON 29NOV2000 @ 10:21:43 1
EARLIEST TIMESTAMP = 25SEP2000 @ 0:07:07 e University LATEST TIMESTAMP = 31OCT2000 @23:56:54

JOBNAME	JESNO	NO	STEPNAME	PGMNAME	SDATE	ALC STRT HH:MM:SS	PROGRAM	PGM STRT HH:MM:SS	DELAY HH:MM:SS	MVS SID
DILRGSHR	5119	2	BACKUP	ADRSSU	01OCT2000	6:20:08	01OCT2000	6:58:45	38:36	SYSE
TOTAL ALLOCATION DELAY FOR JOBSTEPS THAT BEGAN ALLOCATION IN THIS HOUR 38:36										
TDWH187P	2700	4	PS060	ADWH187P	03OCT2000	15:36:44	03OCT2000	16:24:09	47:24	SYSF
TDWH18CP	2706	6	PS080	SORT	03OCT2000	15:42:17	03OCT2000	16:24:09	41:52	SYSF
NVISVNL	2733	3	PS020	IEBGENER	03OCT2000	15:44:16	03OCT2000	16:24:09	39:52	SYSF
ABIL952P	354	24	PS120	IEBGENER	03OCT2000	15:47:25	03OCT2000	16:24:09	36:43	SYSE
TDWH186P	2695	2	PS020	SORT	03OCT2000	15:57:56	03OCT2000	16:24:09	26:12	SYSF
TOTAL ALLOCATION DELAY FOR JOBSTEPS THAT BEGAN ALLOCATION IN THIS HOUR 3:12:03										
TDWH185P	2689	6	PS060	SORT	03OCT2000	16:04:53	03OCT2000	16:24:09	19:16	SYSF
TOTAL ALLOCATION DELAY FOR JOBSTEPS THAT BEGAN ALLOCATION IN THIS HOUR 19:16										
AMPR043P	3014	6	PS010	IDCAMS	04OCT2000	10:28:51	04OCT2000	11:21:18	52:27	SYSE
CVISCJDP	4012	13	PS070	SORT	04OCT2000	10:53:27	04OCT2000	11:21:18	27:51	SYSF
TOTAL ALLOCATION DELAY FOR JOBSTEPS THAT BEGAN ALLOCATION IN THIS HOUR 1:20:18										
UVP00528	4042	3	PS010	IEBGENER	04OCT2000	11:03:22	04OCT2000	11:21:19	17:56	SYSF
TOTAL ALLOCATION DELAY FOR JOBSTEPS THAT BEGAN ALLOCATION IN THIS HOUR 17:56										
DILRGF01	5475	2	BACKUP	ADRSSU	05OCT2000	6:00:02	05OCT2000	6:24:54	24:52	SYSF
DILRGF02	5477	2	BACKUP	ADRSSU	05OCT2000	6:00:02	05OCT2000	6:24:54	24:52	SYSF
CA7FBKUP	5476	2	BKRL	SASSBK00	05OCT2000	6:00:03	05OCT2000	6:24:54	24:51	SYSF
TMONDMPE	4449	1	\$CRUTIL	\$CRUTIL	05OCT2000	6:00:06	05OCT2000	6:24:54	24:48	SYSE
TOTAL ALLOCATION DELAY FOR JOBSTEPS THAT BEGAN ALLOCATION IN THIS HOUR 1:39:23										

ALOCDELAY= 10:00

ALCRPT - Concurrent allocation delay.

Causes of delay: 1) not enough tape drives 2) DFHSM recall
3) more than one request for same VOLSER

```
(C) IBM REPORT=ALCRPT (00264)                  TAPEWISE - ALLOCATION DELAY ANALYSIS          RUN ON 29NOV2000 @ 10:21:43      1
EARLIEST TIMESTAMP = 25SEP2000 @ 0:07:07 _____ e University _____ LATEST TIMESTAMP = 31OCT2000 @ 23:56:54
          INTERVAL  MAX   DIFF           1           2           3           4           5           6           7           8           9           0
DATE    START  CONCUR  JOBS  -+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+
29SEP00 18:00:00      1      1   1 M
30SEP00  6:00:00      1      1   1 M
30SEP00 12:00:00      1      1   1 M
01OCT00  6:00:00      2      2   2 MM
02OCT00  6:00:00      1      2   2 MD
02OCT00 12:00:00      1      1   1 M
02OCT00 22:00:00      1      2   2 MD
02OCT00 23:00:00      1      2   2 MD
03OCT00  6:00:00      3      5   5 MMMDD
03OCT00 15:00:00      5      6   6 MMMMD
03OCT00 16:00:00      6      6   6 MMMMM
03OCT00 19:00:00      1      1   1 M
03OCT00 21:00:00      1      3   3 MDD
03OCT00 23:00:00      1      1   1 M
```

D REPRESENTS THE NUMBER OF DIFFERENT JOBSTEPS EXPERIENCING ALLOC DELAY. M REPRESENTS MAXIMUM CONCURRENT DELAYS.

```
(C) IBM REPORT=ALCRPT (00264)                  TAPEWISE - ALLOCATION DELAY ANALYSIS          RUN ON 29NOV2000 @ 10:21:43      3
EARLIEST TIMESTAMP = 25SEP2000 @ 0:07:07 _____ e University _____ LATEST TIMESTAMP = 31OCT2000 @ 23:56:54
CONCURRENT  NUMBER OF   PCT OF   ACCUM  ACCUM
DELAYS      INTERVALS  INTERVALS INTERVALS PERCENT
          0         809       91.0%    809     91.0%
          1         44        4.9%    853     95.9%
          2         11        1.2%    864     97.1%
          3          5         0.5%    869     97.7%
          4          4         0.4%    873     98.2%
          5          1         0.1%    874     98.3%
          6          3         0.3%    877     98.6%
          7          5         0.5%    882     99.2%
          10         1         0.1%    883     99.3%
          11         1         0.1%    884     99.4%
          15         2         0.2%    886     99.6%
          22         1         0.1%    887     99.7%
          23         1         0.1%    888     99.8%
          24         1         0.1%    889    100.0%
```

USERPT - Concurrent drive use by open datasets.

How many tape drives am I using in this Group? Do I have enough tape drives?

by
TGROUP

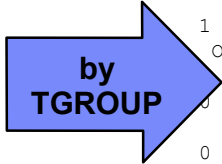
```

1 (C) IBM REPORT=USERPT (05228)          TAPEWISE ANALYSIS - MAX CONCURRENT OPEN DATA SETS  RUN ON 16AUG2005 @ 12:44:04      1
OSL=SP6.1.0 FROM = 09NOV2002 @ 23:52:07  TITLENAME TAPEWISE  LATEST TIMESTAMP = 11NOV2002 @ 0:06:25
TGROUP=          INTERVALSEC= 3600
CONCURRENT DRIVE ALLOCATION IS DETERMINED BY LOOKING AT SMF 14/15 OPEN INTERVALS PLUS SMF 30.4 STEP TERMINATION RECORDS FOR DRIVES
THAT ARE ALLOCATED BUT NEVER OPENED OR MOUNTED. THE PROGRAM ASSUMES THAT THESE UNOPENED DRIVES ARE ALLOCATED FOR THE ENTIRE STEP
DURATION. IT IS IMPORTANT TO THE REPORTING ACCURACY THAT ALL SMF 14, 15, 21, AND 30 RECORDS BE PRESENT. NOT COLLECTING SMF 14/15
RECORDS FOR STARTED TASKS WILL CAUSE INCORRECT REPORTING.
0 ANY PERCEIVED REPORTING INACCURACIES SHOULD BE REPORTED VIA EMAIL TO: TAPETOOL@US.IBM.COM
1 (C) IBM REPORT=USERPT (05228)          TAPEWISE ANALYSIS - MAX CONCURRENT OPEN DATA SETS  RUN ON 16AUG2005 @ 12:44:04      2
OSL=SP6.1.0 FROM = 09NOV2002 @ 23:52:07  TITLENAME TAPEWISE  LATEST TIMESTAMP = 11NOV2002 @ 0:06:25
TGROUP=VTS1          INTERVALSEC= 3600
0
INTERVAL  MAX      1      2      3      4      5      6      7      8      9      0
DATE  DOW  START  OPEN  +---+---+0---+---+0---+---+0---+---+0---+---+0---+---+0---+---+0---+---+0---+---+0---+---+0---+
10NOV02 SU  0:00:00  24 *****
10NOV02 SU  1:00:00   9 *****
10NOV02 SU  2:00:00   1 *
10NOV02 SU  3:00:00  16 *****
10NOV02 SU  4:00:00  17 *****
10NOV02 SU  5:00:00  15 *****
10NOV02 SU  6:00:00  14 *****
10NOV02 SU  7:00:00   8 *****
10NOV02 SU  8:00:00   3 ***
10NOV02 SU  9:00:00   4 ****
10NOV02 SU 10:00:00   4 ****
10NOV02 SU 11:00:00   4 ****
10NOV02 SU 12:00:00   5 *****
10NOV02 SU 13:00:00   3 ***
10NOV02 SU 14:00:00   2 **
10NOV02 SU 15:00:00   2 **
10NOV02 SU 16:00:00  15 *****
10NOV02 SU 17:00:00   9 *****
10NOV02 SU 18:00:00  16 *****

```

This report will typically show 10% less than MOUNTMON since it is using the Open interval.

USERPT distribution of concurrent open datasets

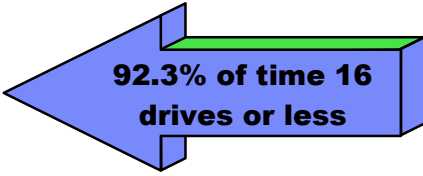


```

1 (C) IBM REPORT=USERPT (05228) TAPEWISE ANALYSIS - MAX CONCURRENT OPEN DATA SETS RUN ON 16AUG2005 @ 12:44:04 3
OSL=SP6.1.0 FROM = 09NOV2002 @ 23:52:07 TITLENAME TAPEWISE LATEST TIMESTAMP = 11NOV2002 @ 0:06:25
TGROU=VTS1 INTERVALSEC= 3600

```

OPEN DSNS	NUMBER OF INTERVALS	PCT OF INTERVALS	ACCUM INTERVALS	ACCUM PERCENT
0	1	3.8%	1	3.8%
1	2	7.6%	3	11.5%
2	2	7.6%	5	19.2%
3	3	11.5%	8	30.7%
4	5	19.2%	13	50.0%
5	1	3.8%	14	53.8%
7	1	3.8%	15	57.6%
8	1	3.8%	16	61.5%
9	2	7.6%	18	69.2%
14	1	3.8%	19	73.0%
15	2	7.6%	21	80.7%
16	3	11.5%	24	92.3%
17	1	3.8%	25	96.1%
24	1	3.8%	26	100.0%



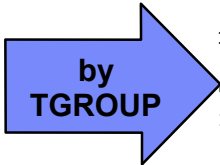
PGMRPT - alphabetical - Mounts by pgmname.

by
TGROUP

(C) IBM REPORT=PGMRPT (02121) TAPEWISE MOUNTS BY PGMNAME WITHIN TGROUP RUN ON 02MAY2002 @ 2:40:35 1
 EARLIEST TIMESTAMP = 02SEP2000 @ 22:57:08 TESTING WORKLOAD LATEST TIMESTAMP = 05SEP2000 @ 0:21:09

PGM_NAME	DIFFJOB	SPC_MNT	SCR_MNT	TOT_MNT	%OF TOT	ACCUM	ACUMM%	MBREAD	MBWRITE	MBTOTAL
\$AVRFMRG	1	1	1	2		2		857	64	921
\$AVRINIT	2	2	1	3		5		0	1385	1385
ACFRPTPP	2	4	0	4		9		2826	0	2826
ADSMI002	10	3	53	56		65		0	58319	58319
BRUBC804	1	0	1	1		66		0	176	176
DFHJUP	2	2	0	2		68		2671	0	2671
DMINIT	1	0	1	1		69		0	305	305
DSNUTILB	100	0	337	337		406		0	354114	354114
ESRFCMD	2	4	0	4		410		3096	0	3096
E1EXJCLJ	5	5	0	5		415		0	0	0
E1MAIN	28	37	0	37		452		22483	0	22483
FDR	62	0	1013	1013		1465		0	747966	747966
FDRDSF	7	4	9	13		1478		0	1465	1465
FOCUS	1	4	1	5		1483		9355	1120	10475
FSDBC680	1	2	0	2		1485		1885	0	1885
ICEGENER	1	7	1	8		1493		1290	1290	2580

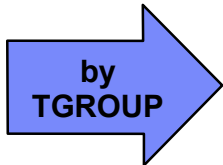
PGM(nn)RPT - TOP(nn) - Mounts and MBs processed by program name (TOP50)



(C) IBM REPORT=PGMRPT (02121) TAPWISE MOUNTS BY PGMNAME WITHIN TGROUP RUN ON 02MAY2002 @ 2:28:30 1
 EARLIEST TIMESTAMP = 02SEP2000 @ 22:57:08 TESTING WORKLOAD LATEST TIMESTAMP = 05SEP2000 @ 0:21:09

PGM_NAME	DIFFJOB	SPC_MNT	SCR_MNT	TOT_MNT	%OF TOT	50 REQUESTED ACCUM	ACUMM%	MBREAD	MBWRITE	MBTOTAL
FDR	62	0	1013	1013	53.3	1013	53.3	0	747966	747966
DSNUTILB	100	0	337	337	17.7	1350	71.1	0	354114	354114
IEBGENER	58	93	153	246	12.9	1596	84.0	263731	311215	574946
ADSMI002	10	3	53	56	2.9	1652	87.0	0	58319	58319
E1MAIN	28	37	0	37	1.9	1689	88.9	22483	0	22483
SORT	12	14	23	37	1.9	1726	90.9	8924	21430	30354
IFASMFDP	17	15	11	26	1.3	1752	92.3	8863	7185	16048
IDCAMS	13	7	16	23	1.2	1775	93.5	5210	10345	15555
IDMSBCF	13	0	18	18	0.9	1793	94.4	1750	9938	11688
FDRDSF	7	4	9	13	0.6	1806	95.1	0	1465	1465
ICEGENER	1	7	1	8	0.4	1814	95.5	1290	1290	2580
SASXA1	4	2	4	6	0.3	1820	95.8	4790	1348	6138
TAXBC510	3	3	3	6	0.3	1826	96.2	3874	2488	6362
E1EXJCLJ	5	5	0	5	0.2	1831	96.4	0	0	0
FOCUS	1	4	1	5	0.2	1836	96.7	9355	1120	10475
UTLBA214	4	5	0	5	0.2	1841	96.9	4672	0	4672

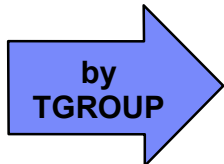
JOBRPT - alphabetical - Mounts by jobname.



(C) IBM REPORT=JOB RPT (02121) TAPEWISE MOUNTS BY JOBNAME WITHIN TGROUP RUN ON 02MAY2002 @ 2:40:36 1
 EARLIEST TIMESTAMP = 02SEP2000 @ 22:57:08 TESTING WORKLOAD LATEST TIMESTAMP = 05SEP2000 @ 0:21:09

TGROUP=GRP1	JOB_NAME	DIFFJOB	SPC_MNT	SCR_MNT	TOT_MNT	%OF TOT	ACCUM	ACUMM%	MBREAD	MBWRITE	MBTOTAL
	\$AVRSB	2	2	1	3		3		0	1385	1385
	ACFJ003	2	4	0	4		7		2826	0	2826
	ACFJ014	5	0	5	5		12		0	325	325
	ACTJ004	1	2	1	3		15		2281	2281	4562
	ACTJ604	1	0	1	1		16		26	26	52
	ACTJ904	1	3	1	4		20		196	196	392
	ANNJ380	1	1	0	1		21		2940	0	2940
	APLJ500	2	0	11	11		32		0	8388	8388
	APLJ501	1	0	3	3		35		0	1754	1754
	BPSJ500	1	0	7	7		42		0	6199	6199
	BPSJ501	1	0	7	7		49		0	6729	6729
	BPSJ502	1	0	10	10		59		0	8835	8835
	BPSJ503	1	0	10	10		69		0	9666	9666
	BPSJ504	1	0	9	9		78		0	7658	7658
	BRHJ205	1	0	1	1		79		0	176	176
	BRHJ288	1	0	1	1		80		0	20	20

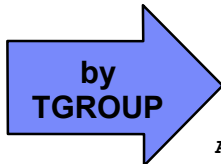
JOB(nn)RPT - TOP(nn) - Mounts and MBs processed by jobname (TOP15)



(C) IBM REPORT=JOBRPT (02121) TAPewise MOUNTS BY JOBNAME WITHIN TGROUp RUN ON 02MAY2002 @ 2:28:31 1
 EARLIEST TIMESTAMP = 02SEP2000 @ 22:57:08 TESTING WORKLOAD LATEST TIMESTAMP = 05SEP2000 @ 0:21:09

TGROUP=GRP1	TOP 50 REQUESTED										
JOB_NAME	DIFFJOB	SPC_MNT	SCR_MNT	TOT_MNT	%OF TOT	ACCUM	ACUMM%	MBREAD	MBWRITE	MBTOTAL	
SYSJ005B	3	75	66	141	7.4	141	7.4	252877	252877	505754	
OPAJ201	1	0	63	63	3.3	204	10.7	0	49599	49599	
DB2J275	1	0	62	62	3.2	266	14.0	0	90716	90716	
OPAJ203	1	0	58	58	3.0	324	17.0	0	45243	45243	
SYSJ503	2	0	58	58	3.0	382	20.1	0	46829	46829	
DVLJ500	2	0	55	55	2.8	437	23.0	0	52685	52685	
OPAJ204	1	0	54	54	2.8	491	25.8	0	41279	41279	
OPAJ202	1	0	46	46	2.4	537	28.2	0	36891	36891	
OPAJ205	1	0	46	46	2.4	583	30.7	0	35233	35233	
OPAJ206	1	0	45	45	2.3	628	33.0	0	33326	33326	
TAXJ511	3	15	24	39	2.0	667	35.1	12892	12933	25825	
RRDFSGPB	28	37	0	37	1.9	704	37.0	22483	0	22483	
DB2J260	2	0	34	34	1.7	738	38.8	0	52139	52139	
SYSJ510	2	0	34	34	1.7	772	40.6	0	20930	20930	
SYSJ506	2	0	32	32	1.6	804	42.3	0	22123	22123	
VSDJ500	2	0	28	28	1.4	832	43.8	0	20626	20626	

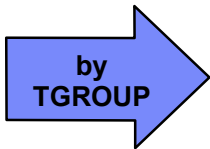
ACT(nn)RPT - Top(nn) - Mounts and MBs processed by account code



(C) IBM REPORT=ACTRPT (02121) TAPewise MOUNTS BY ACTNAME WITHIN TGROUP RUN ON 02MAY2002 @ 2:28:31 1
 EARLIEST TIMESTAMP = 02SEP2000 @ 22:57:08 TESTING WORKLOAD LATEST TIMESTAMP = 05SEP2000 @ 0:21:09
 TGROUP=GRP1 TOP 50 REQUESTED

ACCTCODE	DIFFJOB	SPC_MNT	SCR_MNT	TOT_MNT	%OF TOT	ACCUM	ACUMM%	MBREAD	MBWRITE	MBTOTAL
COMPUT	31	0	404	404	21.2	404	21.2	0	273443	273443
57422	6	0	312	312	16.4	716	37.7	0	241573	241573
PRODUC	25	0	298	298	15.7	1014	53.4	0	232950	232950
3757	5	83	68	151	7.9	1165	61.3	255548	255548	511096
1200	57	0	148	148	7.7	1313	69.1	0	134471	134471
A700	7	0	88	88	4.6	1401	73.8	0	125655	125655
OPERC	13	27	33	60	3.1	1461	76.9	25380	17037	42417
1200PR	12	15	34	49	2.5	1510	79.5	9934	19865	29799
A675	7	0	41	41	2.1	1551	81.7	0	52574	52574
57496	26	0	39	39	2.0	1590	83.7	0	45532	45532
000	28	37	0	37	1.9	1627	85.7	22483	0	22483
2726	4	0	32	32	1.6	1659	87.4	0	31207	31207
A650	10	0	22	22	1.1	1681	88.5	0	18237	18237
OPERATIO	10	7	15	22	1.1	1703	89.7	3468	12883	16351
2600	1	0	18	18	0.9	1721	90.6	0	25494	25494
7371	2	0	16	16	0.8	1737	91.5	0	16418	16418

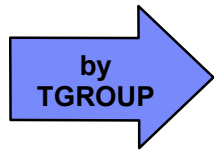
FILRPT - Mounts for File Sequence > 1



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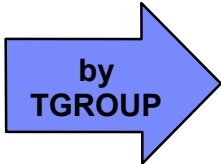
1 (C) IBM REPORT=FILRPT (05111)          TAPEWISE MOUNTS BY FILE SEQUENCE FROM SMF 14/15/21          RUN ON 21APR2005 @ 11:57:28          9
OSL=SP7.0.2 FROM = 15DEC2002 @ 18:25:10 TESTING WORKLOAD LATEST TIMESTAMP = 08MAR2003 @ 0:01:38
OTGROUP=3590
  CUA VOLSER JOBNAME PGMNAME          SMF      SMF      SMF      SMF      FILE # BUF
  DATE              TIME              BLKCNT  BLKSIZE  ON VOL  NO DSNAME
00151 N01429 SASPENKA SORT          28FEB2003 18:27:03 599824 6144     11    1 $ECDA.DB2SMF.DBP2.D030213
0152 N01952 ODDDICSY DSNUTILB 25FEB2003 3:13:33   772    28672    2    0 DBD0COPY.VLT.SYSDATA.DAILY.SYSUTILX.G0205V00
0152 N04312 ODDDICSY DSNUTILB 26FEB2003 4:55:00   422    28672   15    0 DBD0COPY.VLT.SYSDATA.DAILY.SYSUTILX.G0206V00
0152 N02143 SASPENK4 SORT          01FEB2003 19:20:06 1090854 28672    2    1 DBP0COPY.APPDATA.VLT.DCLMS995.G0004V00
0171 N02148 SASPENK5 SORT          01FEB2003 19:34:20 1090854 28672    2    1 DBP0COPY.APPDATA.VLT.DCLMS995.G0005V00
0170 N02227 SASPENK6 SORT          01FEB2003 19:52:28 1090854 28672    2    1 DBP0COPY.APPDATA.VLT.DCLMS995.G0006V00
0152 N02493 SASPENKD SORT          01FEB2003 23:00:46 1090854 28672    2    1 DBP0COPY.APPDATA.VLT.DCLMS995.G0007V00
0173 N02987 SASPENKA SORT          01FEB2003 14:34:29   32060 31961   11    1 ENPR.I19100SA.I-F-147.DAILY.G0046V00
0173 N02987 SASPENKA SORT          01FEB2003 14:56:17   23232 31961   21    1 ENPR.I19100SA.I-F-147.DAILY.G0046V00
0150 N01483 SDCVRAJ1 PTLDRIVM 03FEB2003 15:05:47   1427 32760   29    0 FDRABR.VDAS101.B103033A
0150 N02271 SDCVRAJ1 PTLDRIVM 03FEB2003 15:02:41   7721 32760   13    0 FDRABR.VDAT107.B103032A
0171 N04259 SASPREST FDRABR    27FEB2003 18:53:34     11 32760    9    0 FDRABR.VGENT04.C1000100
0150 N04259 SASPREST FDRABR    27FEB2003 18:56:55     305 32760    9    0 FDRABR.VGENT04.C1000100
0150 N04259 SASPREST FDRABR    27FEB2003 19:05:16     11 32760    9    0 FDRABR.VGENT04.C1000100
0150 N04259 SASPREST FDRABR    27FEB2003 19:16:27     11 32760    9    0 FDRABR.VGENT04.C1000100
0152 N02076 SDIMPWFL NDVRC1    10FEB2003 16:42:42   3074 32760   45    0 FDRABR.VPRIM0A.B102299A
0152 N02076 SDIMPWFL NDVRC1    10FEB2003 16:44:13     39 32760   47    0 FDRABR.VPRIM0A.B102299A
0151 N01175 FASPO28 IKJEFT01 10FEB2003 9:21:18     5 32760  238    0 FDRABR.VPRS003.B102321A
0151 N01175 FASPO28 IKJEFT01 10FEB2003 9:33:50     5 32760  238    0 FDRABR.VPRS003.B102321A
0172 N02673 FASPO28 IKJEFT01 10FEB2003 9:24:32     5 32760  196    0 FDRABR.VPRS04B.B102312A
0151 N02445 WHULIK  IKJEFT01 24FEB2003 17:51:06    19 32760    3    0 FDRABR.VPRS05D.B102354A
0151 N02486 SASRAR  IKJEFT01 04MAR2003 2:36:04    166 32760  121    0 FDRABR.VPRS06C.B102204A
    
```

FILRPT - Mounts for File Sequence > 1 distribution



```
1 (C) IBM REPORT=FILRPT (05111)          TAPEWISE MOUNTS BY FILE SEQUENCE FROM SMF 14/15/21          RUN ON 21APR2005 @ 11:57:28          20
OSL=SP7.0.2 FROM = 15DEC2002 @ 18:25:10  _____ TESTING WORKLOAD _____ LATEST TIMESTAMP = 08MAR2003 @ 0:01:38
0
TGROUP  FILE_SEQ  MNTS  PCT  MNTS  PCT
03590   1         2447  82.4% 2447  82.4%
        2-5         102  3.4%  2549  85.8%
        6-10        116  3.9%  2665  89.7%
        11-15         59  1.9%  2724  91.7%
        16-25         92  3.0%  2816  94.8%
        26-50         67  2.2%  2883  97.1%
        51-100        54  1.8%  2937  98.9%
        101-200       30  1.0%  2967  99.9%
        201-500        2  0.0%  2969 100.0%
        501-
```

DSN(nn)RPT - TOP(nn) - Mounts by dataset name (TOP30).



(C) IBM REPORT=DSNRPT (02032) TAPEWISE MOUNTS BY DSNAME WITHIN TGROUP RUN ON 01FEB2002 @ 13:29:07 1
 EARLIEST TIMESTAMP = 22APR2001 @ 13:00:01 VTS USER WORKLOAD LATEST TIMESTAMP = 25APR2001 @ 6:34:52

TGROU=VTS1		DELTA DAYS: (LSTDATE-FSTDATE)+1		TOP 30 REQUESTED								
ACTIVITY		LAST_OUT	DIFF DELTA	SPFC	SRCH	TOTAL	TGROUP	PCT OF	ACCUM	PCT OF	ACCUM	
RANK	DSNAME	JOBNAME	GDGS DAYS	MOUNTS	MOUNTS	MOUNTS	ACCUM	TGROUP	PCT	TOTAL	PCT	
1	RDTEST.W.RJEDDALL.IP750-RD	Q9JAPGRD	1 2	84	1	85	85	1.0%	1.0%	0.8%	0.8%	
2	MS.I.DIFSYSM.IP750-DF.G*	ZQH0285	4 2	51	1	52	137	0.6%	1.7%	0.4%	1.2%	
3	RDTEST.W.RJEDDALL.IP750-RD.D01113	Q9HJPGRD	1 1	41	1	42	179	0.5%	2.2%	0.3%	1.6%	
4	FS.SOFTAUDT.DTLSAVE.B.WEEKLY.G*	ZSP2SFTB	13 2	38	1	39	218	0.4%	2.7%	0.3%	2.0%	
5	FS.SARMAIN.SARTAPE.T0007767		1 1	37	0	37	255	0.4%	3.2%	0.3%	2.4%	
6	DL.E.MORTWEST.DLSEQTL.COLDPTS.G*	ZDLG701W	18 2	18	18	36	291	0.4%	3.6%	0.3%	2.7%	
7	MB.Q.RTDEPRRR.RT228-01.G*	ZRT1RRX1	5 2	35	1	36	327	0.4%	4.1%	0.3%	3.1%	
8	DL.E.MORTEAST.DLSEQTL.COLDPTS.G*	ZDLG701E	16 2	16	16	32	359	0.4%	4.5%	0.3%	3.4%	
9	DZ.E.MORTTEST.DZSEQTL.OBKPO29.G*	D9COSB29	32 2	0	32	32	391	0.4%	4.9%	0.3%	3.7%	
10	MB.D.RJEDDAZZ.RD020-01.G*	ZRD2AZZ	4 2	29	1	30	421	0.3%	5.3%	0.2%	3.9%	
11	XY.E.SARTEST.SARTAPE.T0011256		1 2	29	0	29	450	0.3%	5.7%	0.2%	4.2%	
12	MB.Q.DCIKBA.IK001-03.G*	ZIK155BA	3 2	24	2	26	476	0.3%	6.0%	0.2%	4.5%	
13	XY.E.MORTDCTR.XYSEQTL.COLDPTS.G*	ZXY1927M	6 2	20	6	26	502	0.3%	6.3%	0.2%	4.7%	
14	CM.MXG.CICSTRAN.G*	ZCM1660	2 2	19	4	23	525	0.2%	6.6%	0.2%	4.9%	
15	MOUNTMON RECORD WITHOUT SMF 14/15		1 3	23	0	23	548	0.2%	6.9%	0.2%	5.1%	
16	CM.E.RAWDATA.CMESMF.DAILY.G*	ZCM1308	4 2	18	4	22	570	0.2%	7.2%	0.2%	5.4%	
17	FI.W.BK6017.FIDECONV.TDMSTDC.G*		1 2	22	0	22	592	0.2%	7.5%	0.2%	5.6%	
18	BI.W.DCIBSQQ.BIRMTS01.G*	ZBI106Q	3 2	19	2	21	613	0.2%	7.7%	0.1%	5.8%	
19	DL.E.MORTDCTR.DLSEQTL.RPTS298.G*	ZDLG298M	21 2	0	21	21	634	0.2%	8.0%	0.1%	6.0%	
20	IF.I.DCIBSZZZ.IF040B11.G*		1 2	21	0	21	655	0.2%	8.3%	0.1%	6.2%	
21	MB.D.RJEDDBHH.RD020-01.G*	ZRD1BH7	2 2	19	2	21	676	0.2%	8.5%	0.1%	6.4%	
22	DL.E.MORTEAST.DLSEQTL.RPTS197.G*	ZDLC197E	15 1	5	15	20	696	0.2%	8.8%	0.1%	6.6%	
23	J6T.CNTEST.T.J6JPPG.P6770402.PBSPLT01.TD		1 2	20	0	20	716	0.2%	9.0%	0.1%	6.7%	
24	MB.D.RJEDDBRR.RD030-01.G*	ZRD2BRR	1 2	19	1	20	736	0.2%	9.3%	0.1%	6.9%	
25	SX.W.CLPLSGGG.SX.CLACTRAN.BKUP6.G*	ZSX148G	2 2	19	1	20	756	0.2%	9.5%	0.1%	7.1%	
26	BY.E.BILLPROD.BYSEQTL.JOBACCTG.G*	ZBYA001E	8 2	12	7	19	775	0.2%	9.8%	0.1%	7.3%	
27	DL.E.MORTWEST.DLSEQTL.RPTS298.G*	ZDLG298W	19 2	0	19	19	794	0.2%	10.0%	0.1%	7.5%	
28	RDTEST.W.RJEDDMAB.RD035-01.G*	Q9MBPGMR	15 2	4	15	19	813	0.2%	10.3%	0.1%	7.7%	
29	MB.D.RJEDDARR.RD020-01.G*	ZRD2ARR	2 2	17	1	18	831	0.2%	10.5%	0.1%	7.8%	
30	MB.D.RJEDDGGG.RD020-01.G*	ZRDGGG7	2 2	14	4	18	849	0.2%	10.7%	0.1%	8.0%	

BLKRPT - Datasets with small block sizes (user defines "small")

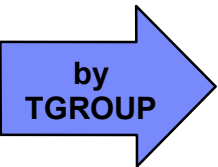
```

1 (C) IBM REPORT=BLKRPT (05228)          TAPEWISE BLOCKSIZE REPORTING FROM SMF 14/15/21          RUN ON 16AUG2005 @ 12:44:07          1
OSL=SP6.1.0 FROM = 09NOV2002 @ 23:52:07          TITLENAME TAPEWISE          LATEST TIMESTAMP = 11NOV2002 @ 0:06:25
0
   CUA VOLSER JOBNAME  PGMNAME      DATE      TIME  BLKCNT  BLKSIZE  BLKSIZE  NO  DSNAME
03001 NA0632 HSM      ARCCTL    10NOV2002  0:35:55 2417392 16384    855  0  HSM.BACKTAPE.DATASET
100A U21721 NARJXZMC WAAPLINK 10NOV2002  6:35:30   71  32700    461 200 PNASC.HRBBU.HOMEIX11.G0738V00
102C U21721 NARJXZMC WAAPVSM 10NOV2002  6:35:49   56  32700    585  5  PNASC.HRBBU.HOMEIX11.G0738V00
1136 U69091 NARJX7TZ WAAPLINK 10NOV2002  1:56:27   70  32700    468 50  PNASC.HRBBU.HOSTIX11.G0739V00
1020 U19445 NARJXZTC WAAPLINK 10NOV2002  5:50:52   77  32700    425 200 PNASC.HRBBU.HOSTIX11.G0740V00
1028 U19445 NARJXZTC WAAPVSM 10NOV2002  5:51:01   55  32700    595  5  PNASC.HRBBU.HOSTIX11.G0740V00
0C5B E93623 NASRDWDF SORT     10NOV2002 16:36:27   573 32760   3602  0  PNASR.RMDVL.DSVVEDIC.G0951V00
0C5A E93590 NASRDWIG DFSUDMP0 10NOV2002 16:11:20   801 32704   2971  5  PNASR.RMWBV.IC.HXXDIDAC.G0596V00
0C55 E93590 NASRDWDF SORT     10NOV2002 16:38:07   995 32704   2395  0  PNASR.RMWBV.IC.HXXDIDAC.G0596V00
0BF6 E94982 NASRDWDF SORT     10NOV2002 16:38:07   759 32704   3135  0  PNASR.RMWVL.IC.HXXDIDAC.G0570V00
112C U55113 CA07BKVS IDCAMS   10NOV2002 10:31:04   70  32704    468  5  SYS2.CA7.BACKUP.ARF.G0581V00

```

During tape processing, small block sizes cause poor channel utilization.
 In a VTS, small block sizes cause poor compression.
 32K blocks or larger are desired.

BLKRPT - Hourly Distribution by TGROUP



```

1 (C) IBM REPORT=BLKRPT (05228) TAPEWISE BLOCKSIZE REPORTING FROM SMF 14/15/21 RUN ON 16AUG2005 @ 12:44:07 2
OSL=SP6.1.0 FROM = 09NOV2002 @ 23:52:07 TITLNAME TAPEWISE LATEST TIMESTAMP = 11NOV2002 @ 0:06:25
TGROUP=VTS1
MOUNT
DATE DOW HR SPFC SRCH TOTAL MB_READ MB_WRT MB_TOT TOTAL % OF BLOCKS XFER IN THESE BLKSIZE RANGES % OF BLKS XFR WITH BUFNO
0K <=4K <=8K <=16K <=24K <=32K <=64K >64K 0 1-2 3-5 6-10 >10
10NOV02SU 00 35 55 90 40977 93630 134607 4562380 99 6 27 65
01 19 19 38 22991 26488 49479 1768044 100 4 59 35
02 0 6 6 0 2528 2528 137752 28 70 1 29 70
03 7 52 59 8170 59767 67937 2223517 1 98 6 93
04 31 71 102 81131 134796 215927 6963874 99 11 88
05 90 9 99 142574 22505 165079 5449796 2 97 1 17 81
06 27 47 74 68585 125180 193765 6403139 100 16 83
07 34 0 34 84992 0 84992 2820944 100 100
08 9 2 11 26199 0 26199 841826 100 99
09 24 7 31 19746 4324 24070 912395 100 26 73
10 9 9 18 13038 14346 27384 879951 2 97 22 15 1 59
11 7 5 12 13285 9378 22663 731469 100 42 6 50
12 1 12 13 2393 18030 20423 664184 99 5 16 77
13 1 7 8 0 16070 16070 516338 99 99
14 3 5 8 6892 11235 18127 582372 100 100
15 15 0 15 32136 0 32136 1032401 100 99
16 54 31 85 71349 9432 80781 2698185 100 4 9 85
17 31 6 37 50649 4872 55521 1855095 3 96 7 92
18 56 2 58 77104 1575 78679 2652788 100 2 4 93
19 27 6 33 15578 10767 26345 854376 100 58 35 5
20 6 15 21 5984 30748 36732 1188565 100 26 4 69
21 27 15 42 21363 12159 33522 1301920 23 76 39 60
22 8 7 15 16908 306 17214 554406 100 100
23 1 1 2 1318 3 1321 42475 100 100
    
```

**During tape processing, small block sizes cause poor channel utilization.
 In a VTS, small block sizes cause poor compression.
 32K blocks or larger are desired.**

LNGRPT - Long VTS mount times (recalls)

What datasets were recalled into the VTS from the backend drives?

```

1 (C) IBM REPORT=LNGRPT (05228)                                TAPEWISE LONG MOUNT ANALYSIS                                RUN ON 16AUG2005 @ 12:44:08                                2
OSL=SP6.1.0 FROM = 09NOV2002 @ 23:52:07                      TITLENAME TAPEWISE                                          LATEST TIMESTAMP = 11NOV2002 @ 0:06:25
0
   STP CREATE      MOUNT      DAYS      MPEND      MIN MPEND= 90 SEC
JOBNAME JESNO STEPNAME NO  DATE      DATE      SID  TGRP ADDR VOLSER  LATER  HH:MM:SS DSNAME
ONARJHL2M 29886 NPS020   5 09NOV02 10NOV02  NAS1 VTS1 102F U00399   1      3:23 PNARJ.HRHMA.MMMIH554.G0169V00
NARJHL2O 29706 NPS020   4 09NOV02 10NOV02  NAS1 VTS2 1139 U73387   1      8:22 PNARJ.HRHMA.MMOTH753.G0178V00
NARJHL2O 29706 NPS020   4 09NOV02 10NOV02  NAS1 VTS2 1139 U62852   1     10:46 PNARJ.HRHMA.MMOTH753.G0178V00
NARJHL3K 29707 NPS020   5 09NOV02 10NOV02  NAS1 VTS2 110F U67793   1     12:26 PNARJ.HRHMA.MMNYH623.G0293V00
NARJHL3K 29707 NPS020   5 09NOV02 10NOV02  NAS1 VTS2 110F U53504   1     12:23 PNARJ.HRHMA.MMNYH623.G0293V00
NARJHL3K 29707 NPS020   5 09NOV02 10NOV02  NAS1 VTS2 110F U52304   1      8:26 PNARJ.HRHMA.MMNYH623.G0293V00
NARJHL3M 29887 NPS020   2 09NOV02 10NOV02  NAS1 VTS1 1026 U22943   1      3:52 PNARJ.HRHMA.MMMIH555.G0170V00
NARJHL3M 29887 NPS020   2 09NOV02 10NOV02  NAS1 VTS1 1026 U22955   1      5:31 PNARJ.HRHMA.MMMIH555.G0170V00
NARJHL3M 29887 NPS020   5 09NOV02 10NOV02  NAS1 VTS1 100A U00741   1      5:24 PNARJ.HRHMA.MMMIH556.G0177V00
NARJHL3M 29887 NPS020   5 09NOV02 10NOV02  NAS1 VTS1 100A U00433   1      2:18 PNARJ.HRHMA.MMMIH556.G0177V00
NARJHL3O 29708 NPS020   4 09NOV02 10NOV02  NAS1 VTS1 1013 U22857   1      2:52 PNARJ.HRHMA.MMOTH755.G0181V00
NARJHL3O 29708 NPS020  10 09NOV02 10NOV02  NAS1 VTS2 1115 U76737   1     10:35 PNARJ.HRHMA.MMOTH756.G0180V00
NARJHL4K 29709 NPS020   5 09NOV02 10NOV02  NAS1 VTS2 1109 U67455   1     12:51 PNARJ.HRHMA.MMNYH624.G0284V00
NARJHL4K 29709 NPS020   5 09NOV02 10NOV02  NAS1 VTS2 1109 U52196   1     12:06 PNARJ.HRHMA.MMNYH624.G0284V00
NARJHL4K 29709 NPS020   5 09NOV02 10NOV02  NAS1 VTS2 1109 U52828   1     13:08 PNARJ.HRHMA.MMNYH624.G0284V00
NARJHL4M 29888 NPS020   5 09NOV02 10NOV02  NAS1 VTS2 111C U70274   1     10:31 PNARJ.HRHMA.MMMIH558.G0170V00
NARJHL4M 29888 NPS020   5 09NOV02 10NOV02  NAS1 VTS2 111C U70920   1     10:12 PNARJ.HRHMA.MMMIH558.G0170V00
NARJHL4O 29710 NPS020   4 09NOV02 10NOV02  NAS1 VTS2 111D U59018   1      9:46 PNARJ.HRHMA.MMOTH757.G0169V00
NARJHL4O 29710 NPS020   4 09NOV02 10NOV02  NAS1 VTS2 111D U62944   1     12:07 PNARJ.HRHMA.MMOTH757.G0169V00
NARJHL4O 29710 NPS020  10 09NOV02 10NOV02  NAS1 VTS2 1107 U76293   1     12:35 PNARJ.HRHMA.MMOTH758.G0172V00
NARJHL4O 29710 NPS020  10 09NOV02 10NOV02  NAS1 VTS2 1107 U77123   1      5:29 PNARJ.HRHMA.MMOTH758.G0172V00
NARJHL5K 29711 NPS020   5 09NOV02 10NOV02  NAS1 VTS2 1124 U52394   1      8:12 PNARJ.HRHMA.MMNYH625.G0299V00
NARJHL5K 29711 NPS020   5 09NOV02 10NOV02  NAS1 VTS2 1124 U66607   1     10:26 PNARJ.HRHMA.MMNYH625.G0299V00
NARJHL5M 29889 NPS020   2 09NOV02 10NOV02  NAS1 VTS1 1015 U00459   1      7:17 PNARJ.HRHMA.MMMIH559.G0169V00
NARJHL5M 29889 NPS020   5 09NOV02 10NOV02  NAS1 VTS1 1000 U01549   1      2:48 PNARJ.HRHMA.MMMIH560.G0168V00
NARJHL5M 29889 NPS020   5 09NOV02 10NOV02  NAS1 VTS1 1000 U01737   1      3:10 PNARJ.HRHMA.MMMIH560.G0168V00

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To get this report it is necessary to process the files from the Tape Mount Monitor (MOUNTMON).

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Have your IBM Storage rep or Business Partner send an email with specific details to:
tapetool@us.ibm.com

TapeWise

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