

Fully Wired Hot Topics: Wicked Questions, Cool Answers, and a Free Software Update!

Session 2861



SHARE 98

Nashville, TN

MVS/SCP Project

March 7, 2002

Sam Knutson



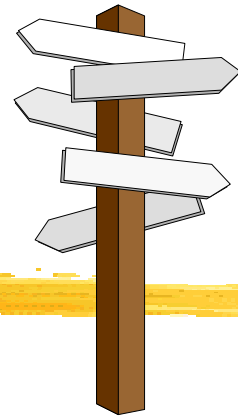
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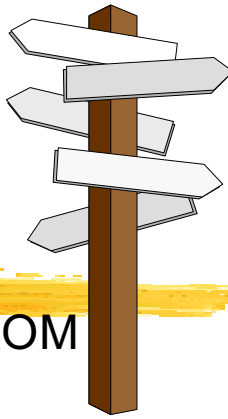
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Session 2861 Abstract



The latest MVS Freeware CBT tapes (3480 cartridges) V442 and CBT CD-ROM #9 (with MVS 3.8J, CBT Tape (CBT442), JES2 & JES3 Freeware, MVT, Hercules, and LOTS more), and CD-ROM “Volker Bandke MVS Turnkey Project for Hercules” will be handed out to attendees. Updated tapes and CD(s) for SHARE in Nashville!

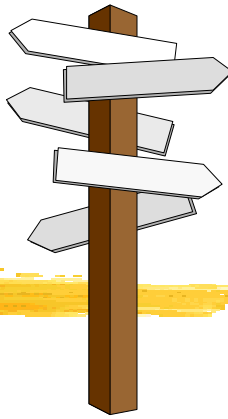
The session will also cover what's new and exciting in MVS Freeware and MVS web resources.

Finally dozens of tough questions and great answers appear daily on the IBM-MAIN mail list, but some seem to keep returning. Attend this session to learn the answers to both the common and especially interesting questions, which have been asked and answered on IBM-MAIN and other popular s390 mailing lists. In the past such questions have included:

- How do I move a link list library without an IPL?
- How do I determine the contents of a tape?
- How do I modify my system to allow me to LOGON to multiple systems with the same userid?

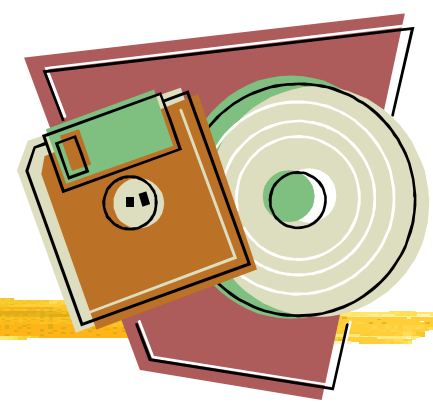
A brief overview on reading and optionally participating in the IBM-MAIN and other forums will be provided.

Agenda



- Handouts
- e-Books, e-Magazines, and other e-publications
- Software Archaeology
- Free Mainframe and PC Tools
- A couple Hot Topics
- PC Tools of use to MVS Dinosaurs
- Mailing List Tutorial Overview, Tips, and Common Lists
- Q&A

Handouts



- Paper Copy of foils from this presentation which have also been submitted to the proceedings
- CBT CD-ROM MVS freeware, tools, information of all kinds for mainframe craftsmen
- Volker's MVS 3.8 Turnkey CD-ROM for Hercules
- CBT Tape 442 Feb - 3 - 2002 on 3480 cartridge

CBT Tapes



- CBT Tape on 3480 tape cartridge w/ IDRC
- Unload File 1 using IEBGENER for documentation on the contents and advice on getting started finding useful tools on the tape.
- Visit <http://www.cbttape.org> for updates and other goodies
- Updated frequently

CBT Tape Version 442 Feb - 3 - 2002

available here today!

Getting started with CBT Tape



JCL to unload File 1 (Documentation) or File 3 (Unload JCL)

```
//COPY      EXEC PGM=IEBGENER
//SYSPRINT DD  SYSOUT=*
//SYSUDUMP DD  SYSOUT=*
//SYSUT1    DD  DSN=FX,DISP=OLD,UNIT=uuuu,
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=32720),
//          VOL=SER=CBT442,LABEL=(n,NL,EXPDT=98000)
//SYSUT2    DD  DSN=userid.CBT442.FILEn,
//          DISP=(NEW,CATLG,DELETE),UNIT=SYSDA,VOL=SER=vvvvvvv,
//          SPACE=(TRK,(5,5),RLSE),
//          DCB=(RECFM=FB,LRECL=80,BLKSIZE=6320)
//SYSIN     DD  DUMMY
```

- Explore File 1 possibly use CBTUPDTE program to break it up into a PDS of smaller members

Getting started with CBT CD-ROM

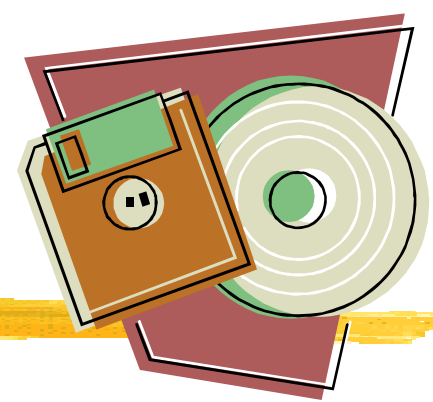


The CD should automatically open CBT.htm in your default web browser from the CD when inserted on most Windows computers. If this does not happen or you are using Linux, Macintosh, etc you can open it manually.

The CD should be useable on most modern OS it is not limited to Windows although some of the PC freeware is Windows specific.

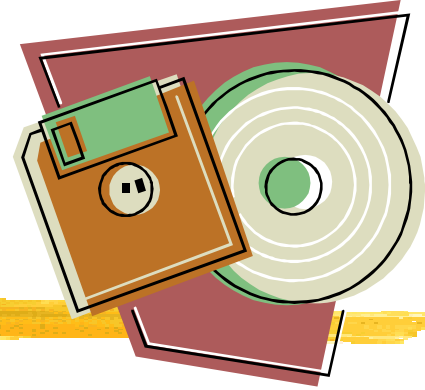
You may give the CD away but don't assume because something is on the CD you have cart blanche to redistribute or resell. Respect copyrights and beyond legal necessities respect the author

CBT CD-ROM Contents



- CBT Tape V442 Feb - 3 - 2002
- CBT Overflow Tape V428 Aug - 24 - 00
- Updates pending for V443 through March - 1 - 2002
- Softcopy books from Bob Ducharme and Steve Samson
- PC Tools to work with XMIT files
- Blue Zone FTP client free for personal or commercial use
- Historic OS(s) MVS 3.8, VM/370 R6, OS/360
- Hercules emulator and related resources
- Web sites from Volker Bandke, Lionel Dyck, David Alcock
- JES2 and JES3 free tools and mods
- Explore for more including MVT mods starting at `x:\histmods\histmods.htm`

Getting started with Volker's MVS Turnkey CD for Hercules



The CD should autostart when inserted on a Windows PC and will install the required directories for Hercules, Cygwin, and MVS 3.8 in the configuration you select

You can read the documentation on the Internet at http://www.bsp-gmbh.com/hercules/herc_mvs2.html which includes a pointer to download the .ISO CD image and burn your own copy

e-Books, e-Magazines, and other e-publications



"Using the Internet today is like trying to use a library where all the books have been dumped on the floor and the lights turned out."
A.J. Vendeland, in Review of The Software Publishers Association Europe Conference, Conference Analysis June 28, 1996

One starting place <http://www.cbttape.org/links.phtml>

IMPORTANT

MVS Performance



MVS Performance Management
OS/390 Edition with MVS/ESA SP
Version 5 by Stephen L. Samson

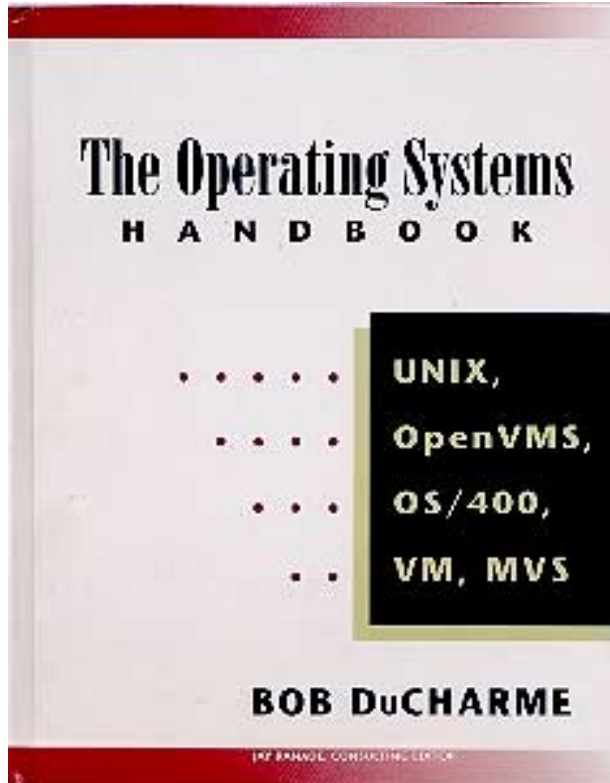
Released as a free e-book

Updates planned may not be free

Good Resource especially for WLM
COMPAT mode while it lasts

<http://www.cbttape.org/samson.htm>

The Operating Systems Handbook



The Operating Systems Handbook
by Bob DuCharme

Released as a free e-book

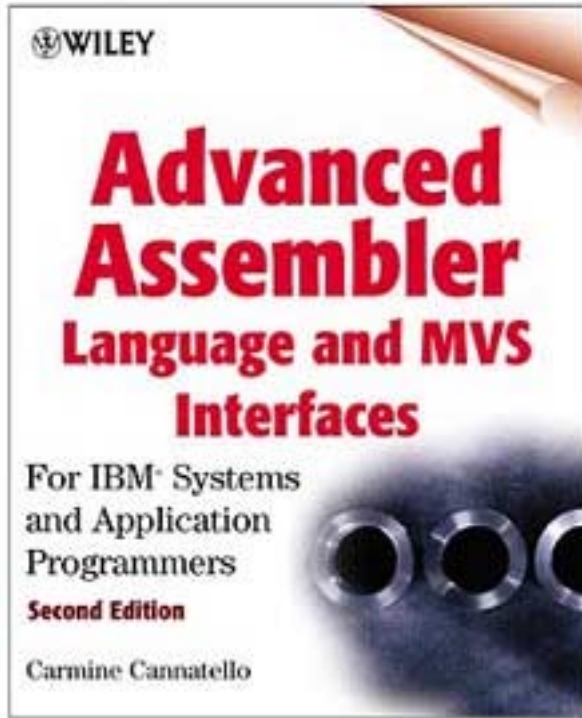
"Working Knowledge of UNIX, VMS, OS/400,
VM/CMS, and MVS."

Wouldn't that look great on **your** resume?

I wanted to call it "Fake Your Way Through Minis
and Mainframes," but McGraw-Hill wanted
something that sounded more respectable...

<http://www.snee.com/bob/opsys.html>

Advanced Assembler Source



Advanced Assembler Language and
MVS Interfaces: For IBM Systems
and Application Programmers,
Second Edition

Carmine A. Cannatello
ISBN 0471361763
848 pages

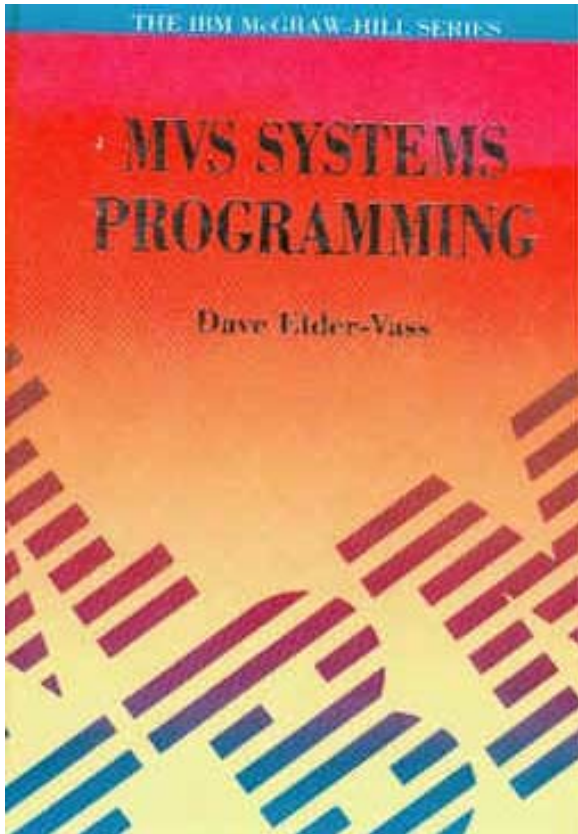
Where to buy the book?

<http://www.isbn.nu/0471361763>

Source Code on
CBT Tape File 69

*I purchased the first edition and
examples on diskette in 1991 for
about \$50 each*

MVS Systems Programming



MVS Systems Programming

by David Elder-Vass

ISBN: 0-07-707767-9

Out of Print

Written in 1993 before OS/390

e-Book now available on the web
at

<http://www.mvsbook.fsnet.co.uk/>

Reprint now available through
Amazon.com or iuniverse.com

IBM Hot Topics



Published twice a year

Articles by IBM developers and others

Produced by IBM

Publications in Poughkeepsie

Available in hardcopy at user groups like SHARE and on the web

http://www-1.ibm.com/servers/s390/os390/bkserv/hot_topics.html

IBM Redbooks



IBM has released a new Redbook series entitled the

"ABC's of Systems Programming" and is a

"five-volume set that is designed to introduce the structure of an OS/390 and S/390 operating environment. The set will help you install, tailor, and configure an OS/390 operating system, and is intended for system programmers who are new to an OS/390 environment."

Check out IBM Redbooks <http://www.redbooks.ibm.com/> or:

- Volume 1 <http://www.redbooks.ibm.com/abstracts/sg245597.html>
- Volume 2 <http://www.redbooks.ibm.com/abstracts/sg245852.html>
- Volume 3 <http://www.redbooks.ibm.com/abstracts/sg245853.html>
- Volume 4 <http://www.redbooks.ibm.com/abstracts/sg245654.html>
- Volume 5 <http://www.redbooks.ibm.com/abstracts/sg245655.html>



SHARE Proceedings



Located at <http://www.share.org>

- Proceedings from most recent SHARE conference
 - View on-line or download .ISO to burn a CD-R
- Archives in members only area

If you want a SHARE CD from Minneapolis contact SHARE Headquarters at 888-574-2735. They were not shipped automatically to all attendees.

If you were a Minneapolis SHARE attendee the CD will be free of charge.



IBM References

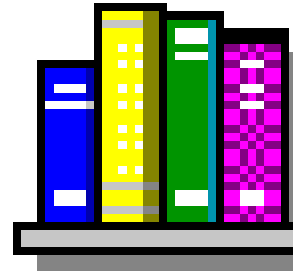


IBM Internet Library

<http://www.s390.ibm.com/os390/bkserv>

which still forwards to reorganized URL

<http://www.ibm.com/servers/s390/os390/bkserv/>



LOOKAT IBM tool to quickly lookup messages

<http://www.ibm.com/servers/s390/os390/bkserv/lookat/lookat.html>



IBM Catalog and VSAM Knowledge Base

<http://knowledge.storage.ibm.com>



Magazines



Archives 1996 - 2002 <http://www.naspa.com/tsyellow.htm>

<http://www.naspa.com/> is home site for NaSPA

MAINFRAME WEEK

<http://www.mainframeweek.com>

Free Xephon weekly email newsletter focused on IBM mainframes



<http://www.esj.com>

Free access to current and back issues of Enterprise Systems Journal. Subscribe Free to the printed magazine on-line. **Reduced MVS content in recent issues.**

More out there



http://dmoz.org/Computers/Software/Operating_Systems/OS-390/



dmoz Open Directory Project
is the largest, most
comprehensive human-edited
directory of the Web

<http://www.xephon.com>



Free backs issues of Xephon MVS, DB2, RACF, CICS, and other Update publications from prior to 1998. Now a weekly email newsletter is available which has been well received.

On-Line Computer Dictionaries



UPDATE! 

-  Terminology

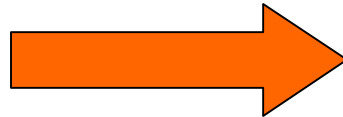
<http://www.ibm.com/ibm/terminology/>



Free On-Line Dictionary
of Computing

<http://www.foldoc.org>

This standard
one is handy and
no pop-up ads!



<http://www.m-w.com>

Software Archaeology



- Old software may still have value but it's harder to find than you think. Don't expect the original vendor to have a pristine copy of unsupported software
- Longevity of the media IOS000I w/ DCK or NCA bad sign
- Magnetic Tape typical life 5-20 years, ideal 30-100
- Platform Obsolescence 800bpi tape, 5 1/4" or 8" diskettes, etc.

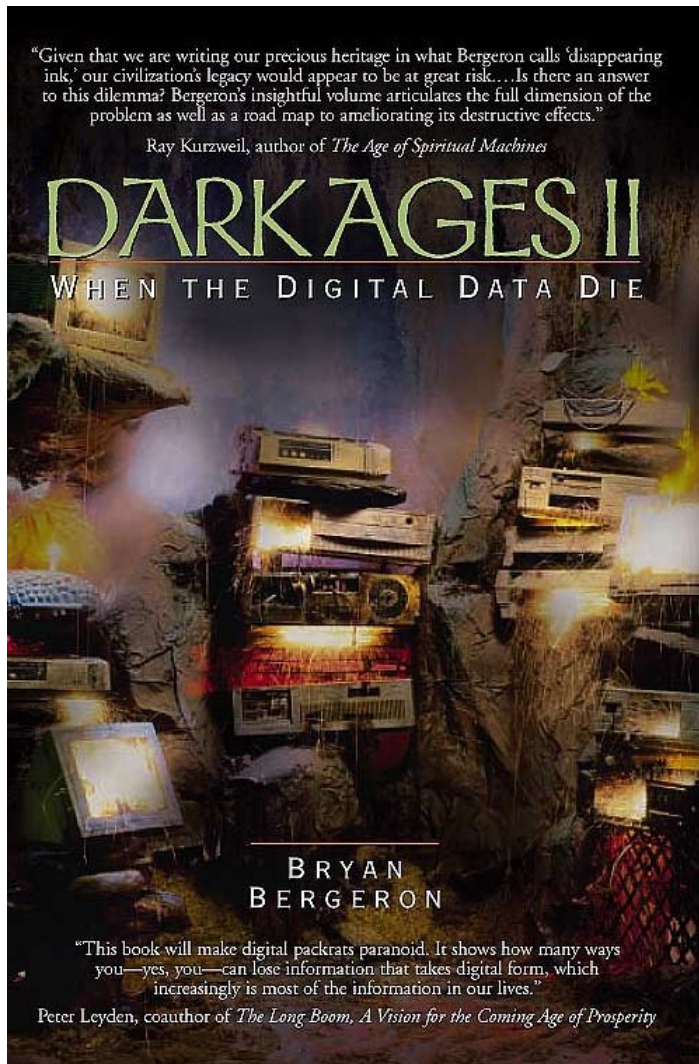
Digital Dark Ages II



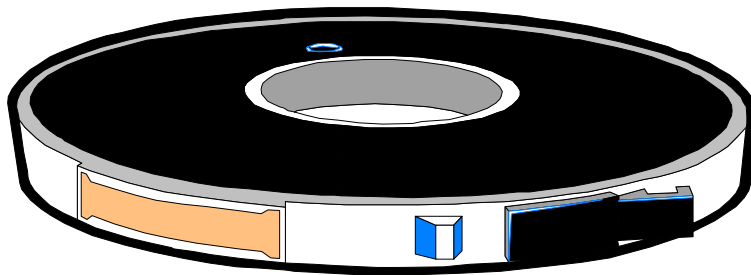
Dark Ages II: When the Digital Data Die by Bryan Bergeron

<http://isbn.nu/0-13-066107-4>

Much like Bryan I have found that the legacy of mainframe systems is being written in digital disappearing ink!



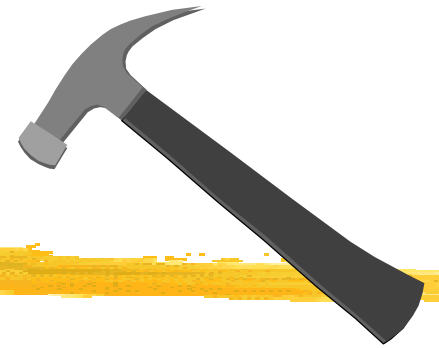
Help Wanted



WANTED: working 800bpi capable tape drive preferred attached to MVS, willing to copy data to help recover old public domain or freely distributed materials.

Email me at sknutson@cbttape.org if you can help

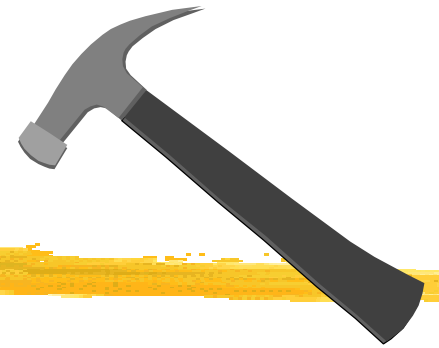
Why Tools?



The difference between an amateur and a professional is often mastery of the tools of the trade. If you take the time to prepare and grow comfortable with your tools when required you will be able to quickly and efficiently accomplish tasks that others consider impossible or too large to complete in the available time.

"Whatever tools you have, learn to use them. Over and over. Better and better. You'll surprise yourself if you are patient, stick to an organized schedule, and keep working at it." Sam Golob

Free Software



“Sharing of software was not limited to our particular community; it is as old as computers, just as sharing of recipes is as old as cooking. But we did it more than most.” Richard Stallman

SHARE: “It’s not an acronym. It’s **what we do.**”

Bring home the Tools!



Take home at least one tool and solve a problem. If you do this someone may actually believe you worked at SHARE. Probably not since everyone at your shop KNOWS that they only reason you come to SHARE is because “THEY HAVE AN 8 HOUR OPEN BAR AT SCIDS EVERY NIGHT!”

Tape Tools



- Map contents
- Copy tapes
- Virtual Tape Images and utilities
- Examine data
- File Manipulation

TAPEMAP



The tape mapping program called TAPMAP supplied as source on file 299 of the CBT tape, is widely used. It includes special support for mapping the CBT Tape and other common file formats. *64k blocksize supported*

Does not require BLP but BLP allows you to analyze a volume without changes to JCL or any prior knowledge of that tape volume.

Leonard Woren's web page
<http://www.best.com/~ldw/mvs>

has his original version of
TAPMAP. **oco**

```
//TAPMAP EXEC PGM=TAPMAP,REGION=6M
//SYSUDUMP DD SYSOUT=*
//SYSPRINT DD SYSOUT=*
//SYSPRNT2 DD SYSOUT=*
//SYSUT1 DD DISP=OLD,
// DSN=MOUNT.TAPE,
// LABEL=(,BLP,EXPDT=98000),
// UNIT=3490,
// VOL=SER=(TAPEIN)
```

TAPEMAP sample output



1VOL=OS360S CART ANALYSIS PROGRAM (T A P E M A P) V2.1 TUESDAY NOV 03, 1998 (98.307) 14:14:03

RELOAD	FILE		PSWD		INFO		BLOCK	BLOCK		LNTH	TOTL	CREATOR			
FORMAT	SEQ#	DATASET NAME	REQD	C-DATE	E-DATE	SOURCE	RECFM	LRECL	SIZE	COUNT	DEN	TRT	(FT)	LNTH	JOBNAME/STEPNAME
0	1	0360S001		98.012	00.000	LABELS	VB	94	32716	107	N/A				SBGOLOB6/STEPYYY
CBT973	2					SCAN	V		32716	107	N/A	8	8		
	2	0360S002		98.012	00.000	LABELS	VB	94	32716	107	N/A				SBGOLOB6/STEPYYY
CBT973	5					SCAN	V		32716	107	N/A	8	17		
	3	0360S003		98.012	00.000	LABELS	VB	94	32716	26	N/A				SBGOLOB6/STEPYYY
CBT973	8					SCAN	V		32714	26	N/A	2	19		

EOV ***

ONOTE: LENGTH(S) ARE COMPUTED, (BASED ON BLKSIZE, BLKCOUNT, AND DENSITY), AND ARE THEREFORE ONLY APPROXIMATE.

1VOL=OS360S CART ANALYSIS PROGRAM (T A P E M A P) V2.1 TUESDAY NOV 03, 1998 (98.307) 14:14:03

```
-O360S001                      (FILE 0001) IS A CBT973 COMPRESSED FILE:    A-ADD    C-CHANGE    R-REPLACE    > = SUBORDINATE NAME
0                      FOLLOWING MEMBERS UNLOADED:
0                      A-IEMAA    A-IEMAB    A-IEMAC    A-IEMAD    A-IEMAE    A-IEMAG    A-IEMAH    A-IEMAI    A-IEMAJ    A-IEMAK
                    A-IEMAL    A-IEMAM    A-IEMAN    A-IEMAP    A-IEMAS    A-IEMAT    A-IEMAV    A-IEMBC    A-IEMBE    A-IEMBF
                    A-IEMBG    A-IEMBI    A-IEMBJ    A-IEMBM    A-IEMBN    A-IEMBO    A-IEMBP    A-IEMBR    A-IEMBS    A-IEMBT
                    A-IEMBU    A-IEMBV    A-IEMBW    A-IEMBX    A-IEMCA    A-IEMCC    A-IEMCE    A-IEMCG    A-IEMCI    A-IEMCK
                    A-IEMCL    A-IEMCM    A-IEMCN    A-IEMCO    A-IEMCP    A-IEMCR    A-IEMCS    A-IEMCT    A-IEMCV    A-IEMCW
                    A-IEMED    A-IEMEF    A-IEMEG    A-IEMEH    A-IEMEI    A-IEMEJ    A-IEMEK    A-IEMEL    A-IEMEM
```

COPYMODS

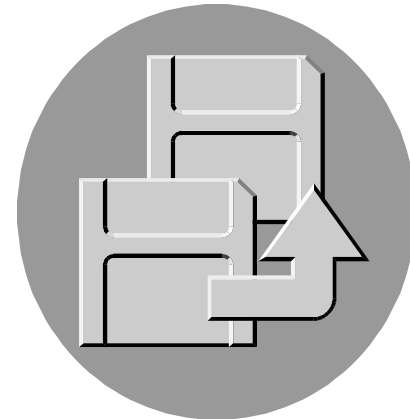


The tape copying program called "COPYMODS" on file 229 of the CBT tape, is useful for making byte-for-byte copies of the CBT tape, and other tapes. Up to 10 copies may be made at one time.

COPYMODS is very reliable and is the recommended program for making copies of the CBT Tape.

Normal use requires BLP privileges.

*Updated by Sam Golob for 64k blocks
and serious tape label manipulation!*



COPYMODS JCL



```
//* COPYMODS IS A FREWARE TAPE COPIER WHICH CAN CREATE
//* MULTIPLE COPIES OF A TAPE IN A SINGLE PASS. IT CAN USE
//* UNLIKE DRIVES FOR INPUT AND OUTPUT E.G. 3480 <<--> 3490
//*
//* WARNING!!!! THIS WILL OVERWRITE ANYTHING YOU PUT IN THE
//* OUTPUT DRIVE.
//*
//COPY EXEC PGM=COPYMODS,REGION=6M
//STEPLIB DD DISP=SHR,DSN=IBMUSER.LOAD
//SYSPRINT DD SYSOUT=*
//IN DD DSN=IBMUSER.INPUT.TAPE,DISP=OLD,LABEL=(,BLP),UNIT=3490,
// VOL=SER=INPUT
//OUT1 DD DSN=IBMUSER.WRITE.TAPE1,UNIT=3480,VOL=SER=OUTPU1,
// LABEL=(,BLP,EXPDT=98000),DCB=TRTCH=COMP
//OUT2 DD DSN=IBMUSER.WRITE.TAPE2,UNIT=3480,VOL=SER=OUTPU2,
// LABEL=(,BLP,EXPDT=98000),DCB=TRTCH=COMP
```

Tip: Use MOUNT command when running multiple jobs i.e.

```
M uuu,VOL=(NL,INPUT),USE=PRIVATE
```

TAPESCAN

Tape Analysis and Copying Program

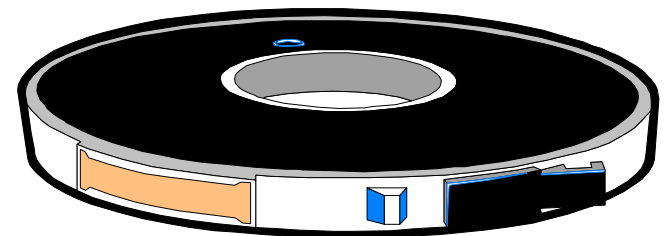


TAPESCAN is found on CBT Tape File 102 with a load module on File 035.

Provides useful measure of “Total Bytes Read”

Map of contents

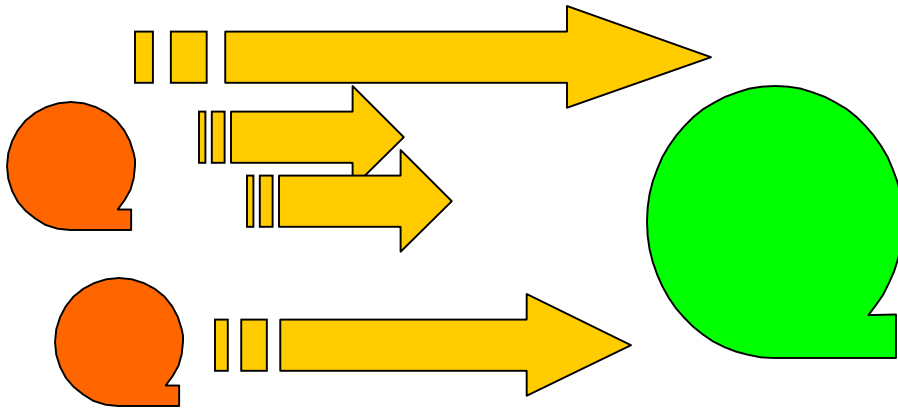
LIST parameter includes preview of each file in output



COPYFILE



```
//COPYPSTEP EXEC PGM=COPYFILE,REGION=4000K,PARM='TAPEL'  
//MSG DD SYSOUT=*  
//TAPELOUT DD SYSOUT=*  
//SYSUDUMP DD SYSOUT=*  
//IN DD DSN=INPUT.FILE,UNIT=TAPE,DISP=SHR,LABEL=EXPDT=98000,  
// VOL=SER=vvvvvvv  
//TAPELIN DD DSN=OUTPUT.FILE,  
// UNIT=( &UN2 , ,DEFER) ,VOL=( ,RETAIN,SER=vvvvvvv) ,  
// DISP=(NEW,KEEP) ,LABEL=EXPDT=98000 ,DCB=TRTCH=COMP
```

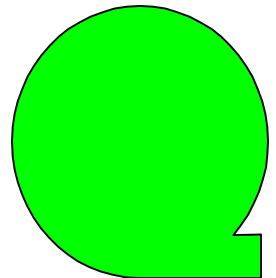


- Copy and reorder files
- Previously used as part of the process to create a new CBT Tape
- Found on CBT Tape File 316 in source and a load module on CBT Tape File 35

AWSTAPE



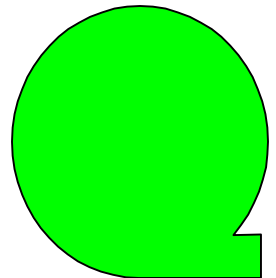
- AWSTAPE format defined by IBM can be used on platforms with emulated I/O such as P390, Multiprise, Hercules. Sequential file seen as a tape by OS but only when seen through the emulated I/O layer. No native access on MVS, VM, etc.
- CBT Tape and many historic volumes available in AWSTAPE format
- Utilities available for MVS, VM, VSE to create AWSTAPE files
 - Used as part of the process to create a new CBT Tape



AWSTAPE Utilities



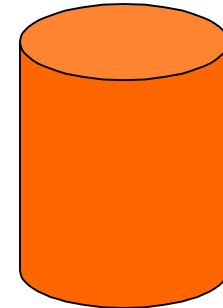
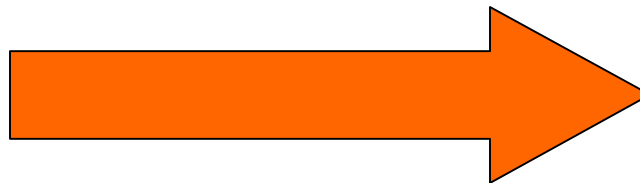
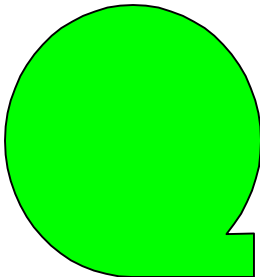
- AWSUTIL
 - found on CBT tape file 477, released under the GPL by Brandon Hill
 - read a tape and create a binary archive in AWSTAPE format output is formatted RECFM VB LRECL 4100
- VTT2* tools found on CBT tape file 533 in source and prebuilt load modules on CBT Tape File 35, written by Sam Golob released for free personal or commercial use
 - VTT2DISK read a tape and create a binary archive in AWSTAPE format output is
 - VTT2TAPE read a AWSTAPE file and output a real tape on media of your choice so long as it is large enough
 - VTT2CNVU convert VB AWSUTIL to FB VTT2* format
 - See Sam Golob December 2001 column in NaSPA technical SUPPORT magazine (CM0112DE CBT file 120)



AWSTAPE VTT2DISK



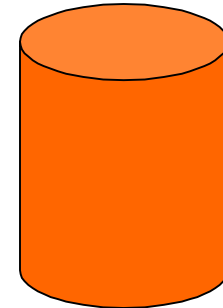
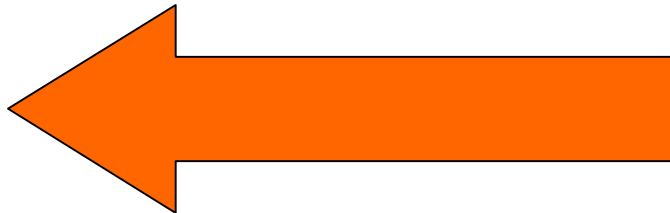
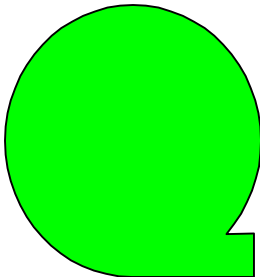
```
//AWSWRIT EXEC PGM=VTT2DISK
//STEPLIB DD DISP=SHR,DSN=IBMUSER.LOAD
//AWSOUT DD DISP=(NEW,CATLG),DSN=IBMUSER.C439MU,UNIT=SYSDA,
// VOL=SER=SCPV05,DCB=(RECFM=FB,LRECL=80,BLKSIZE=27920),
// SPACE=(CYL,(302,10),RLSE)
//TAPIN DD DISP=OLD,UNIT=582,VOL=SER=C439MU,
// LABEL=(1,BLP,EXPDT=98000)
//SYSPRINT DD SYSOUT=*
//SYSFILES DD SYSOUT=*
//SYSTRACE DD SYSOUT=*
//SYSMOVED DD SYSOUT=*
//SYSUDUMP DD SYSOUT=*
```



AWSTAPE VTT2TAPE



```
//AWSREAD EXEC PGM=VTT2TAPE
//STEPLIB DD DISP=SHR,DSN=IBMUSER.LOAD
//AWSIN DD DISP=SHR,DSN=IBMUSER.TAPE
//TAPOUT DD DISP=OLD,UNIT=3420,VOL=SER=TTTTTT,
// LABEL=(1,BLP,EXPDT=98000)
//SYSPRINT DD SYSOUT=*
//SYSFILES DD SYSOUT=*
//SYSTRACE DD SYSOUT=*
//SYSMOVED DD SYSOUT=*
//SYSUDUMP DD SYSOUT=*
```



PDS Search & Replace with IPOUPDTE and CPPUPDTE

- Not part of OS/390 or DFSMS
- Included with IPO and ServerPac
- Utilities and documentation come from IBM
- USER modifications available to eliminate annoyances

You can find documentation on-line for the CPPUPDTE (IPOUPDTE) program here

<http://www.s390.ibm.com/os390/installation/cppupdte.html>



PDS Search & Replace with IPOUPDTE and CPPUPDTE

IPO012 DATASET NOT APPLICABLE TO IPOUPDTE

IPOUPDTE and CPPUPDTE have a requirement that an IBM Copyright Statement member \$\$\$COIBM exists in the PDS you want to use them on. A small modification to remove this requirement is show below. Modification thanks to Sam Golob, J Janco, and Thierry FALISSARD.

*

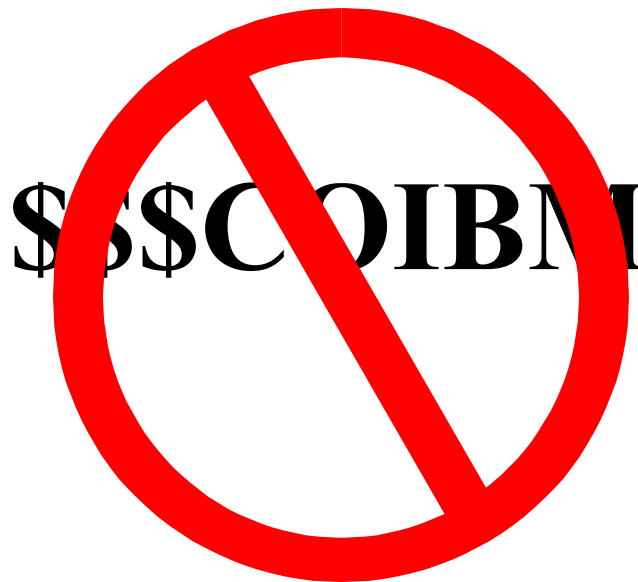
```
NAME  CPPUPDTE
VER   055A 0A12      SVC   18      BLDL OR FIND
VER   055C 12FF      LTR   15,15    CHECK RETURN
VER   055E 4780,C56E BZ                ..... PROCESS
REP   055E 47F0,C56E B                FORCE PROCESS.....
```

*

```
* SPZAP TO REMOVE REQUIREMENT THAT A '$$$COIBM' MEMBER
* BE THE FIRST ONE IN THE PDS TO BE SCANNED.
*   J JANCO   13 MARCH 1986
```

*

```
NAME  IPOUPDTE
VER   0548 0A12      SVC   18      BLDL OR FIND
VER   054A 12FF      LTR   15,15    CHECK RETURN
VER   054C 4780,C55C BZ                ..... PROCESS
REP   054C 47F0,C55C B                FORCE PROCESS.....
```



See the same at Thierry's IPOUPDTE page at <http://os390-mvs.hypermart.net/ipoupdte.htm>

Compress utilities



There are a variety of tools to package and compress data for storage or transport.

'One side will make you grow taller, and the other side will make you grow shorter.' the Caterpillar in **Alice's Adventures in Wonderland** by Lewis Carroll

Compress utilities



- IBM TRSMAN Free, useful for MVS << >> MVS transfers
 - <ftp://service.boulder.ibm.com/s390/mvs/tools/packlib>
 - PARM=SPACK for increased compression uses more CPU
- PKZIP \$ISV product, recommended by many, search IBM-MAIN archives for discussions
 - <http://www.asizip.com>
- ISPZIP \$ISV product, recommend by many, search IBM-MAIN archives for discussions
 - <http://ase.com.au/>

TRSMAN JCL



```
//*****  
//* *  
//* TRSMAN WITH SPACK OPTION *  
//* *  
//*****  
//STEP EXEC PGM=TRSMAN, PARM=SPACK, TIME=1439  
//SYSPRINT DD SYSOUT=*  
//INFILE DD DISP=SHR, DSN=CSSJK.PROD.CONSOLE.DUMP2  
//OUTFILE DD  
DISP=(NEW, CATLG), UNIT=SYSDA, VOL=SER=DMPAC1,  
// DSN=CSSJK.DUMP2.PACKED,  
// SPACE=(CYL, (1000, 150), RLSE)
```

Compress utilities



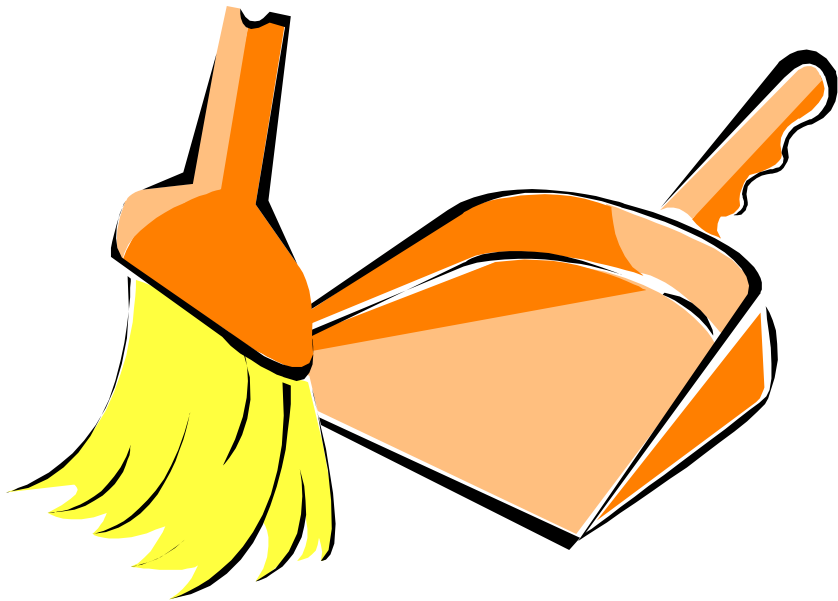
- GIMZIP Free from IBM available as PTF back to R5, not really a ZIP utility, seems to be a poor choice for a name. (Potential gotcha! ICSF “nee crypto” is required)
 - Produces .z file (.pax.z) contains compressed data should be compatible with UNCOMPRESS on UNIX platforms and others that support format
 - <http://www.ibm.com/servers/eserver/zseries/zos/smpe/gimzip.html>
- GZIP Free, some oddities found by Roland Schiradin with MVS implementation, wide cross platform support including Linux, Windows, UNIX, etc.
 - <http://www.gzip.org>
- JAVA JAR command under the USS shell as documented by David Alcock <http://www.planetmvs.com/ibm-main/faq.html> in the IBM-MAIN FAQ

Compress utilities



- The ARCHIVER Free, CBT Tape file #147, Open Source, Excellent history of support and enhancements by Rick Fochtman MVS <<>> MVS, supports archive to tape for transport and backup
 - <http://www.cbttape.org>
- Info-Zip Free, open source, PKZIP compatible, wide cross platform support for the PKZIP format and for ports of Info-Zip
 - USS & MVS classic
 - <http://www.info-zip.org/pub/infozip/>
 - <http://www.ctan.org/tex-archive/tools/zip/info-zip/>
- TSO/E XMIT provides no compression but does package files with odd attributes into FB80 for safe transmission through non-MVS facilities. When combined with terse “TRSMAN” it is very useful to move SVC dump, GTF, SMF, etc. More later on using XMIT and tools to work with XMIT files

File Delete Tools & Tips

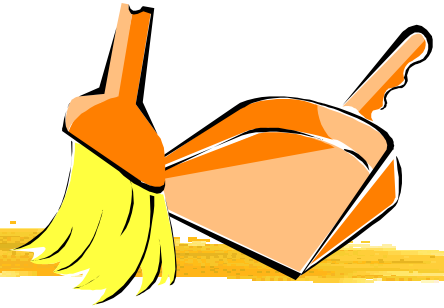


When it's time for spring cleaning deleting files one at a time by hand is not good enough.

You have to feel the delete. Be the delete.

-Jeremy Werner and Brian Hales

DELETE w/ XDELETE

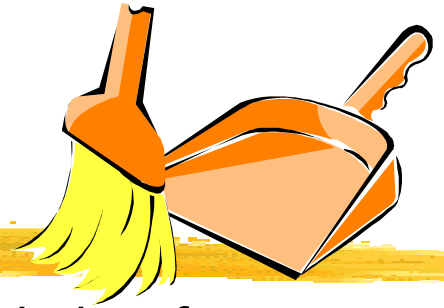


XDELETE - REXX exec uses Catalog Search Interface to invoke DELETE against data sets matching a pattern mask. Another great tool by Gilbert Saint-flour

- CBT file #183 <http://www.cbttape.org>
- <http://mywebpages.comcast.net/gsf/> ←
- XDELETE generic_name EXECUTE
- Use without specifying EXECUTE for a preview
- generic_name i.e. SYS1.PARMLIB , SYS1.* , SYS1 or SYS1.** , **.LIST , AAA%*.B*%%%%B
- documented in source, install in SYSEXEC or SYSPROC concatenation for easy use, can be run in batch TSO



DELETE w/ DFDSS



- DFSMSdss (IBM) is not free but is installed in the majority of installations.

```
//DELDSNS EXEC PGM=ADRDSSU,PARM='TYPRUN=NORUN' <<= Remove to do
//SYSPRINT DD SYSOUT=*                               live instead of simulate
//DUMMY DD DUMMY
//SYSIN DD *
DUMP DATASET (INCLUDE ( -
          SYSS.I28SYT.**.HFS -
          )) -
OUTDD (DUMMY) -
DELETE
/*
```

- Many other OEM products also provide this functionality
- See past thread “Delete libraries” on ISPF-L Search web archives at <http://listserv.nd.edu/cgi-bin/wa?S1=ispf-l> A nice REXX exec by Steve Neeland demonstrates simple Roll Your Own solution using REXX & ISPF services

PC Tools for Dinosaurs



A personal computer is a necessary evil for most of us. A few good tools can help make it more useful.

If you say Java again I'm going to puke.

-Dave Winer

Book Explorer



John Moore's has produced a nifty add-on for IBM Reader software that allows you to open books quickly on any drive. Book Explorer is easy to use, makes life with Library Reader better and is so small and efficient the download is only 1000k! Source code now available!

Get it here <http://home.attbi.com/~bookex/index.html>

Book Explorer provides a Windows Explorer-like interface for browsing and managing IBM BookManager shelves and books. It works with BookManager Read for Windows and Library Reader for Windows.

- Copy Shelves, Books
- Now supports .PDF Books
- It's on the CBT CD

Download latest **version**
1.1.0.108 (Updated
03/03/2002) from the web

Book Explorer



Book Explorer - All-MVS Disc 2 Bookshelf (System Control 2)

File Edit Options View Help

Ⓜ A
Ⓜ C
Ⓜ D
Ⓜ U
←
→
📄
📁
🔍
✖
📄
📄
✖
🔍
📄
✖

Desktop

- My Computer
 - 3½ Floppy (A:)
 - (C:)
 - (D:)
 - Ckitmvb997 (U:)
 - Books
 - llrdos
 - llros2
 - llrwin
 - Omf
 - Scr1
 - Shelves
 - Tapes
 - Upload
 - Printers
 - Control Panel
 - Dial-Up Networking
 - Scheduled Tasks
- My Documents
- Internet Explorer
- Network Neighborhood
- Hummingbird Neighborho
- Recycle Bin
- My Briefcase

Shelf Title	Books	Name	Date	Attr	Filename
ADSM for MVS & VM V1 Bookshelf	10	ANSABK05	1/25/1996 12:22 pm	R	U:\SHEL
ADSM V2R1 MVS Bookshelf	18	A31AMB11	3/25/1997 3:38 pm	R	U:\SHEL
All-MVS Disc 2 Bookshelf (System Control 2)	375	EZ2MV216	8/8/1997 10:10 pm	R	U:\SHEL
AOC/MVS CICS Automation V1R3 Bookshelf	3	AOFCAF00	7/21/1994 4:40 pm	R	U:\SHEL
AOC/MVS IMS Automation V1R3 Bookshelf	3	AOFIAF00	7/15/1994 11:35 am	R	U:\SHEL
AOC/MVS OPC Automation V1R3 Bookshelf	3	AOFOAF00	7/21/1994 4:40 pm	R	U:\SHEL
AOC/MVS V1R4 Bookshelf	6	AOFR404	8/9/1996 9:55 am	R	U:\SHEL

Book Title	Date	Size	Name	D
Abstract Syntax Checker	7/27/1994 5:03 pm	3MB	CMEP0000	S
Administrator's Guide and Reference	1/9/1996 2:14 pm	3MB	DBNC1M00	S
ADSM UNIX V2 Backup-Archive Client	2/19/1996 7:00 pm	772KB	A31EC501	S
ADSM V2 Apple Macintosh Backup-Archive Client	2/19/1996 6:29 pm	448KB	A31EC101	S
ADSM V2 DOS Backup-Archive Client	2/19/1996 7:47 pm	404KB	A31EC201	S
ADSM V2 Installing the Clients	8/15/1996 10:32 pm	708KB	A31ECI03	S
ADSM V2 Microsoft Windows Backup-Archive Clients	2/19/1996 8:06 pm	1MB	A31EC601	S
ADSM V2 Novell NetWare Backup-Archive Client	2/19/1996 8:05 pm	264KB	A31EC302	S
ADSM V2 OS/2 Backup-Archive Client	2/19/1996 7:49 pm	1MB	A31EC401	S
ADSM V2 Trace Facility Guide	2/19/1996 6:58 pm	56KB	A31ECT01	S
ADSM V2 UNIX Hierarchical Storage Management Clients	2/16/1996 11:24 pm	2MB	A31ECH01	S
ADSM V2 Using the Application Programming Interface	2/19/1996 6:56 pm	364KB	A31ECA01	S
ADSM V2 Using the Lotus Notes Backup Agent	2/19/1996 7:46 pm	112KB	A31ECL01	S
ADSM V2R1 and V2R6 Messages	1/28/1997 6:09 pm	2MB	A31EMC06	S

61 Shelves 375 Books 1 Shelf Selected U:\

BlueZone FTP



BlueZone FTP is a mainframe friendly Windows FTP client from Seagull Software which is *free for personal or commercial use*.

The new version 3 allows you to bypass registration if you choose and does not expire. You may register you email address to get a key to get rid of the registration splash screen.

You can purchase a SSL enabled version from SEAGULL



BlueZoneFTP™

MVS Features

- MVS list formats

VM Features

- BFS support
- SFS support
- Minidisk support

BlueZone FTP



BlueZone FTP - T1

File Edit Session Transfer Commands View Help

MVS PROD

C:\TEMP

Name	Size	Date	Type
..			

'CSSJK.UTIL.CNTL'

Name	WV.MM	Date	Size	Init	Mod	Id
..						
\$\$\$\$1111	01.01	1995/07/02 17:06	601	606	0	U35T07
\$\$\$\$MSG	01.00	1994/01/11 12:47	111	111	0	U35T07
\$\$HLIST	01.46	1992/06/18 10:41	61	56	0	U35T07
\$APADD	01.00	1997/01/15 18:12	35	35	0	CSSJK
\$APINIT	01.01	1997/01/15 16:45	54	53	0	CSSJK
\$APUTIL	01.02	1999/07/27 09:10	14	13	0	CSSJK
\$AVRBKPR	01.02	1991/10/10 08:57	46	35	14	U35T07
\$AVRBKUP	01.00	1991/09/18 22:16	18	18	0	U35T07
\$AVRDBRP	01.00	1991/10/24 10:20	19	19	0	U35T07
\$AVREORG	01.05	1994/12/14 05:43	47	40	0	U35T07
\$AVRFLX	01.00	1991/10/07 01:00	770	770	0	U35T07

230 CSSJK is logged on. Working directory is "CSSJK."
SYST
215 MVS is the operating system of this server. FTP Server is the C-server running on OE.

T1 Connected MVS PROD 172.22.2.74 Binary

Visit <http://www.seagullsw.com/> to download latest or get it from CBT CD

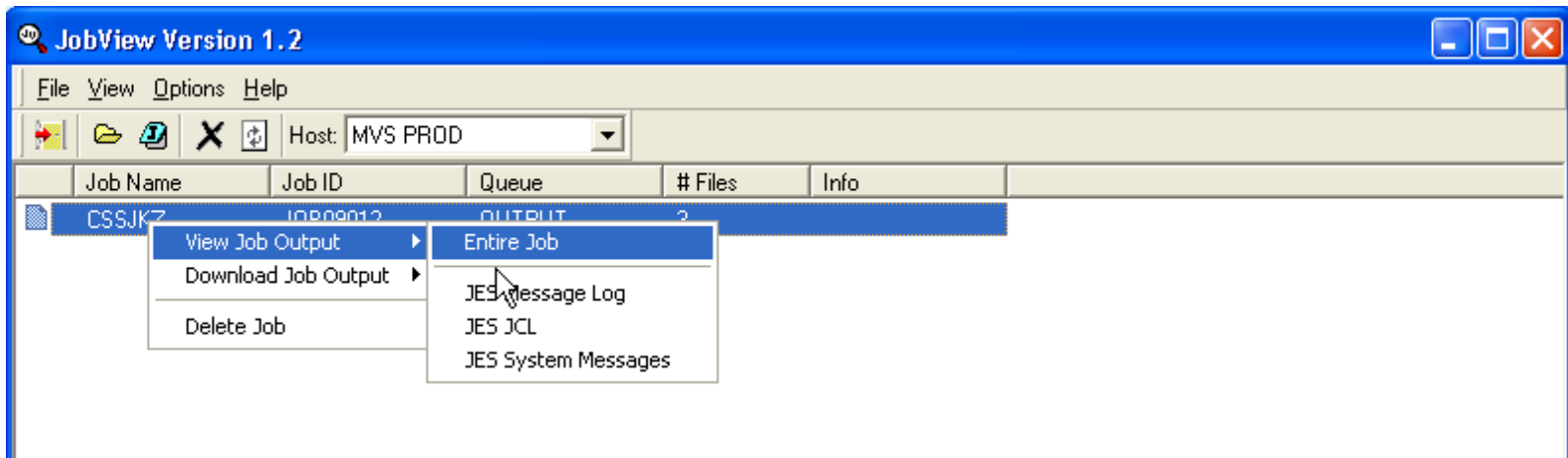
Jobview



Jobview is a freeware, graphical windows program that allows you to submit jobs to MVS using FTP, view the results, and optionally download or delete the output. Perhaps useful for a z/OS.e or other TSO limited environment?

- Windows binary not open source
- Need to input your RACF userid and password
- Currently limited to jobs of userid + 1 character

Download from DIACOM Software <http://www.diacomsoftware.com>



AWS File Browser



Rob Story wrote a nice Windows utility to browse the contents of an AWSTAPE file. This is handy freeware to manage your virtual tape library.

- Delphi Source Included
- Public Domain
- Download from <http://www.cbttape.org/awstape.htm>

The screenshot shows a Windows application window titled "AWS File Browser - C:\Knutson\AWS Browser\GSCTSU.AWS". The window has a menu bar with "Exit", "Open", and "Help/About". The main area is divided into two panes. The left pane is a list of records, and the right pane shows the hexadecimal data of the selected record.

Offset	Description	Hex Data
0	Full Record. Size=80	0000 E3C8C9E2 40C6C9D3 C540C8C1 E240C4C3 THIS FILE HAS DC
86	Full Record. Size=80	0010 C240C1E3 E3D9C9C2 E4E3C5E2 40D6C640 B ATTRIBUTES OF
172	Full Record. Size=80	0020 4DD9C5C3 C6D47EC6 6BD3D9C5 C3D37EF8 (RECFM=F.LRECL=8
258	Full Record. Size=80	0030 F06BC2D3 D2E2C9E9 C57EF8F0 5D404040 0.BLKSIZE=80)
344	Full Record. Size=80	0040 40404040 40404040 40404040 40404040
430	Full Record. Size=80	
516	Full Record. Size=80	
602	Full Record. Size=80	
688	Full Record. Size=80	
774	Full Record. Size=80	
860	Full Record. Size=80	
946	Full Record. Size=80	
1032	Full Record. Size=80	
1118	Full Record. Size=80	

Quick Picks PC Tools



VNC - Virtual Network Computing

- Free remote control software from AT&T
- <http://www.uk.research.att.com/vnc/>

LDAP Browser/Editor

- User-friendly Windows Explorer-like interface to LDAP directories with tightly integrated browsing and editing capabilities. It is entirely written in Java
- Often recommend on MVS-OE list
- <http://www-unix.mcs.anl.gov/~gawor/ldap/>

Where to find other Windows tools

- <http://www.tinyapps.org> “Small is beautiful”
- <http://www.nonags.com> “no disabled features, nags, time limits”

Quick Picks PC Tools



THE - The Hessling Editor <http://www.lightlink.com/hessling/>

- XEDIT like with more ISPF features being added
- Open Source, Freeware

UltraEdit <http://www.ultraedit.com>

- shareware (you must register and pay \$35 after 45 day trial period)
- Best Windows editor I have found

Other TN3270 clients (shareware , not Free)

- Vista <http://www.tombrennansoftware.com>
- QWS3270 Plus <http://www.jollygiant.com/>
- TN3270 Plus SDI <http://sdisw.com.au/>

Anything but Windows



Why?

- Network Tools, Professional Growth, just for fun

Cygwin (GNU) UNIX Tools on Windows

- Easy way to get started <http://www.cygwin.com/>

Linux

- IBM resources <http://www.ibm.com/linux>
- Information Centralized <http://www.linuxdoc.org/>
- I often buy mine here <http://www.cheapbytes.com>

BSD

- OpenBSD <http://www.openbsd.org>
- It's UNIX-like very UNIX-like and secure too

A better file browser



ISPF Browse and
Edit sometimes
need a little help.

What we see depends on mainly what we look for.

-John Lubbock

REVIEW

Now supports HFS files!



- REVIEW is a Quick Viewer for almost any type of data on OS/390 including PKZIP and even some graphic formats
- REVIEW provides optionally formatted displays for SMF, LOGREC, VTOC, and more
- REVIEW is a TSO command processor and does not need ISPF.
- REVIEW source code is in CBT Tape File 134 and a ready to use load module is in CBT Tape File 135. Greg Price regularly updates REVIEW and has a great collection of other useful tools as well which can be found in the same files.



REVIEW a volumes VVDS



```
SYS1.VVDS.VUSER05 ON USER05 ----- LINE 1 COL 1 80
COMMAND ==>                               SCROLL ==> CS
1      10      20      30      40      50      60      70      80
+---+-----+-----+-----+-----+-----+-----+-----+-----+-----+
.8..VVCRA.....CATALOG.LSC.AUX.....
....Z.....SYS1.VVDS.VUSER05 .SYS1.VVDS.VUSER05 ..SYS1.VVDS.VUSER05 ... 0.....
.1.~Q.....NVPLV012.TDVRAZ.VNVGCNTL.INDEX..NVPLV012.TDVRAZ.VNVGCNTL..CATALOG.TSO
.$..Z.....SYS1.IODF84.WORK..SYS1.IODF84.WORK.CLUSTER..CATALOG.S39024.MASTER.SYS
.h..Q.....INFO.V3.DICT.INDEX..INFO.V3.DICT..CATALOG.VTSOPAK.INFO.V3.DICT.....
.j.÷Q.....INFO.V3.RPANELS.INDEX..INFO.V3.RPANELS..CATALOG.VTSOPAK.INFO.V3.RPANE
.?..Z.....SYS1.IODF82.WORK..SYS1.IODF82.WORK.CLUSTER..CATALOG.S39013.MASTER.SYS
....Z.....TMON.CICS322.DFHXRCTL.DATA..TMON.CICS322.DFHXRCTL..CATALOG.VTSOPAK.TM
....Z.....TMON.CICS322.DFHXRMSG.DATA..TMON.CICS322.DFHXRMSG..CATALOG.VTSOPAK.TM
```

Update IKJSTO00 to make REVIEW
authorized and it can quickly examine a VVDS
instead of running Batch IDCAMS PRINT

REVIEW on-line SMF data



```
SYS1.PROD.MAN2 ON S3906R ----- LINE 475 COL 1 80
COMMAND ==>                               SCROLL ==> CS
1      10      20      30      40      50      60      70      80
+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+
75 14:45:01 00.063 PROD RMF 143E PAGE.VPAGE12.PROD.LOCA      1.1io/s      6.0xfr/s
78 14:45:01 00.063 PROD RMF      subtype      2
15 14:45:01 00.063 PROD CSSJW      CSSJW.PS9932G.INSTLIB      B=6320      1 LS0022
77 14:45:01 00.063 PROD RMF      subtype      1
72 14:45:01 00.063 PROD RMF pg 0      1167srv/sec
72 14:45:01 00.063 PROD RMF pg20      618srv/sec      129srv/sec      347srv/sec
30214:45:06 00.063 PROD RMF      STC04053 IEFPROC      CPU-00:00:02 I/O-----2
14 14:45:09 00.063 PROD CSSJW      CSSJW.PS9932G.INSTLIB      B=6320      3 LS0022
30214:45:10 00.063 PROD FARLG      TSU04109 $TSFACCS      CPU-00:00:05 I/O-----1027
80 14:45:12 00.063 PROD CSABS      CSABS      TSOHOLD      TPXGR244
62014:45:45 00.063 PROD CSSJK      SYS1.PROD.MAN1      S3906R
```

REVIEW formats useful SMF information for
a quick review of recent past

REVIEW Tips



Update your ISPF configuration table using the ISPCCONF dialog to allow ISPF to automatically invoke REVIEW for VSAM files.

```
VSAM_BROWSE_ENABLED           = YES
VSAM_BROWSE_COMMAND           = REVIEW /
```

- REVIEW can be interrupted during a long browse down
- See REVNOTES member, the source code (now more than 30K line!), and Greg's web site for more information

**Explore the CBT CD to
www.prycroft6.com.au/index.html to find an
offline copy of Greg's web site**

System Information Tools



Several tools provide so much information they let you quickly map out an OS/390 system.

SHOWMVS

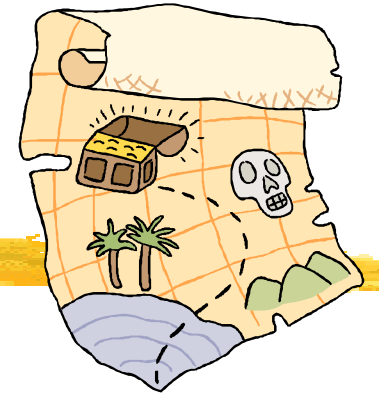


- One Stop shopping for system configuration information. The format allows you to quickly review everything on-line or in Batch. Output weather in batch or on-line is monolithic with all data produced all the time.
- Originally developed by Gilbert Saint-flour
- The Source code for SHOWMVS can teach you a lot! STRING macro is EXCELLENT formatting tool for assembler programs.
- SHOWMVS currently maintained by Roland Schiradin on CBT Tape file 492 and a very active development and beta test team
- Future development plans being explored include a TCP/IP client and a menu to make the output more accessible in ISPF

SHOWMVS 6.29 & 7.03 (current) are on the CBT CD



SHOWMVS (Short)



Operating System:

OS/390 02.06.00 CVTOSLVL: FF FF F0 00 00 00 00 00

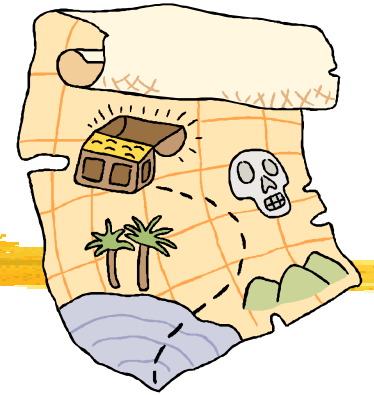
DFSMS/MVS 1.4.0 Dynamic Linklist is supported
Dynamic LPA is available
DFSMS Loader Fork Exit is present

JES2 Level: OS 2.5.0 NJE Node: JES2MVS DSNID: 01

Last IPL:

Date: Monday 2000-02-07 (25 days ago) Time: 19.23 Julian:
2000.038
From: S3906R/1209 NUC Id: 1 Type: Cold Start CVTUSER: 00000000
SYSPLEX name: DEVL52 SYSPLEX ID: OD OpenMVS available: YES
Timezone: W 05.00.00

SHOWMVS



SHOWMVS displays two different types of data:

- Data related to the MVS operating system
 - Operating System Release and status, Subsystems, XCF, GRS, DAE, DASD, Linkage Index (LX) Table, more...
- Data related to the current address space
 - TCB Tree, TSO Information, REXX Environment, more..

SHOWMVS can be invoked as a program, as a TSO command, or as an edit macro and can run authorized or non-authorized. Some of the displays are only produced when SHOWMVS runs authorized.

SHOWMVS many displays!



MVS LEVEL, DFP LEVEL, OSLVL FLAGS, JES2 LEVEL
IPL DATE, TIME, VOLSER, NUC-ID, CLPA, CVTUSER
Date and time of last CLPA (auth)
Time Zone, Primary sub-system name and type
Software Level: TSO/E, ISPF, DSS, HSM, RACF, VTAM, SORT,
DSF, DB2, CICS, MQ Series
Run-time Environments (CBL, PLI, FORTRAN, C/370, LE)
SMF Information: SID, JWT, data sets, exits
SMS Configuration: SCDS, system names, last update
GRS Configuration
XCF Configuration (auth)
PATH data
Coupling Facility Data
External Time Reference (ETR)
Hardware configuration
 Central Processing Complex Node Description (CPC ND)
 On-line CPUs and storage
 Performance (SU/sec, estimated MIPS)
 Service Processor data
 I/O configuration Definition (IODF)
 LPAR configuration
VM host information (auth)
VIRTUAL STORAGE MAP (CSA, SQA, LPA, etc)
SRM data (IPS/ICS/OPT, APG, etc)
WLM data (MODE, ETC)
Resource Recovery Manager (RRS)
Automatic Restart Manager (ARM)
OPEN catalogs
PAGE data sets in use
Dump data sets status and dump options
Dump data sets date, time and title (auth)
Automatically-allocated dump data sets (auth)
DAE Parameters (auth)
GTF status and options
Initialization Parameters (IPA)
Master JCL (IEEMSJCL)
Sub-system vector table with functions processed
Primary Sub-system JCL (auth)
TSO PARMLIB data (IKJTSOxx)
TSO Exits and Tables
TCAS parameters (auth)

RACF options, data sets and tables
Address space usage:
 Batch Jobs
 TSO users
 Started tasks
JES2 Initiators and corresponding jobs
Link-list data sets, with creation date
LPA-list data sets, with creation date
List of authorized libraries
Dynamic Exit Facility
Static system symbols
LLA parameters and managed libraries (auth)
ACTIVE LPA QUEUE
SVC Table with name of the corresponding module
T1, T2, T3 and T6 ESR tables
Linkage Index (LX) Table (auth)
Program Properties Table (PPT) (auth)
I/O Appendage Table
Resource Manager List (IEAVTRML)
Device Classes and corresponding unit names
On-line devices, with unit-name, VOLSER, owning j
ob,use attribute, storage group
System consoles, with status & Routcde list
Message Processing Facility (MPF)
Command Prefix Table (CPFT)
Device Allocation Defaults (ALLOCxx)
Addresses of selected global control blocks
JCL information for current JOB/STEP
RACF profile (from ACEE)
TSO profile (from PSCB & UPT)
REXX environments, host cmd tables and func pkg
directories
Allocated Data sets (from TIOT, SWA, TCT)
TCB tree and PRB chain
Attention Routines
Enhanced view of the JPAQ and Load-lists
Recovery exits and timers
Addresses of selected local control blocks
MORE!!!!

MXI



- MXI (MVS eXtended Information) is an ISPF-based application that enables the MVS Systems Programmer to display important configuration information about the active MVS system.
- Although primarily used online, MXI can be run in batch and also has a REXX interface.
- Most of the displays can be filtered using ISPF-like masking characters and many display fields are 'point-and-shoot'.
- Some displays only available if MXI is authorized
- MXI is very easy to install but does not include source **OCO**
- Some displays clearly tied closely to system internals

New Version 3.4 released to public March - 5 - 2002

CBT Tape Files 409, 410 (Rob also has MORE utilities on file 411) or

SEC web site at

<http://www.secltd.co.uk>



MXI Options screen 1 of 3



MXI - PROD - MVS Extended Information Primary Option Menu ----- Row 1 of 47
Command ===> Scroll ===> PAGE

AGRP	SMS Aggregate Group Information	MPF	MPF Information
APF	APF List Dataset Information	NTOK	System Name/Token Information
ASID	Address Space Usage Information	NUC	Display System Nucleus Modules
CAT	Catalog Information	OMVS	OpenEdition Configuration
CA1	CA-1 Configuration Information	PAGE	Page Dataset Information
CDE	JPAQ and TCB loaded modules	PARM	Active PARMLIB Information
CF	Coupling Facility Information	PEEK	Show ISPF Screens
CHP	Online Channel Paths	PID	OpenEdition Processes
CPF	Command Prefix Table	PLEX	Display Sysplex Information
CPU	CPU and LPAR Information	PPT	Program Properties Information
CS	Common Storage Usage	RACF	RACF Information
CSR	Common Storage Remaining	RCLS	RACF Class Information
DA	Active Address Space Information	RL	RACF Profile Information
DAE	Dump Elimination Information	RS	Real Storage Usage Information
DASD	Online DASD Information	SCLS	SMS Storage Class Information
DCLS	SMS Data Class Information	SGRP	SMS Storage Group Information
DDNS	Allocated Dataset Information	SMF	SMF General Information
DEV	DASD Activity	SMFD	SMF Dataset Information
DS	Personal Dataset List	SMS	SMS Configuration Information

MXI Options screen 2 of 3



MXI - PROD - MVS Extended Information Primary Option Menu ----- Row 20 of 47
Command ===> Scroll ===> PAGE

DSP	Dataspace Information	SMSM	SMS Module Map
DYNX	Dynamic Exit Information	SP	Common Storage Subpool Usage
EDT	Display EDT Information	SPD	Subpool Definitions
EMCS	E-MCS Information	SSI	Subsystem Information
ENQ	Display ENQ Information	SRVC	WLM Service Class Information
ENQC	Display ENQ Contention	STOR	System Storage Information
EXC	System Exceptions	SVC	SVC Information
GRS	GRS Resource Name Lists	SYM	System Symbols
HFS	OpenEdition File Systems	SYSX	System Exit Information
HSM	HSM Configuration	TAPE	Online TAPE Information
HSMQ	HSM Request Queues	TCB	TCB and RB Information
INIT	JES2 Initiators	UCB	UCB Information
IPL	IPL and Load Information	UIC	UIC Information
LINK	Linklist Dataset Information	USP	User Subpool Information
LLS	Linklist Set Information	VMAP	Display Virtual Storage Map
LLSU	Linklist Set Usage Information	WLM	WLM Policy Information
LPA	LPA List Dataset Information	WLMA	WLM Application Environments
LPD	Link Pack Directory Entries	WLMC	WLM Classification Rules
LX	Linkage Indexes and PC Routines	WLMG	WLM Classification Groups

MXI Options screen 3 of 3



File Datasets Modules Units System Sysplex SMS Storage Tools RACF

MXI - PROD - MVS Extended Information Primary Option Menu ----- Row 39 of 47
Command ==> Scroll ==> PAGE

MAKE Change Address Space	WLMS WLM Scheduling Environments
MCLS SMS Management Class Information	WTOR Outstanding Operator Replies
MCS MCS Consoles	XCFM Display XCF Members
MDQ Memory Delete Queue	XCFS Display XCF Structures
MEM Display Memory	XM Cross Memory Connections

MXI Version 3.4 GenLevel 020121
(c) Scott Enterprise Consultancy Ltd
<http://www.secltd.co.uk>

NEW in Version 3.4

- batch ZAP command to alter common storage
- DEV, HSM, WLMA, WLMS, UIC > 255, more!



MXI Allocated Dataset Info

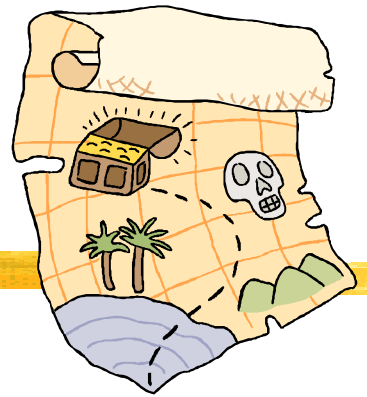


MXI - PROD - Allocated Dataset Information: JES2 ----- Row 1 of 13
Command ==> Scroll ==> PAGE

DD	Cat	Volume	EXCP	Dataset	
Name	Seq	Unit	Serial	Count	Name
STEPLIB	+00	1209	S3906R	0	SYS1.V2R5M0.SHASLINK
PROC00	+00	122A	S3906T	460	SYS4.PROD.PROCLIB
PROC00	+01	1209	S3906R	14	SYS1.PROCLIB
PROC00	+02	1209	S3906R	0	CPAC.PROCLIB
PROC00	+03	1209	S3906R	0	SYS1.IBM.PROCLIB
PROC02	+00	1C4B	CATPAK	288	SYS1.PRODPK.PROCLIB
PRT1	+00	050F		0	SYS00062.T090946.RA000.JES2.R0116242
ALTPARM	+00	1209	S3906R	0	SYS1.PROD.PARMLIB.NEW
SYS00001	+00	122A	S3906T	192747	SYS1.PROD.HASPCKPT
\$SPOOL1	+00	141A	SPOOL1	0	SYS1.PROD.HASPACE

- Peek into other ASID(s) and look at I/O same as OEM MVS Monitors
- Displays the current allocated DDNAMEs and their associated data sets.
- Command Syntax DDNS dd-mask JOB(jobname) ASID(asid)

MXI Common Storage Usage

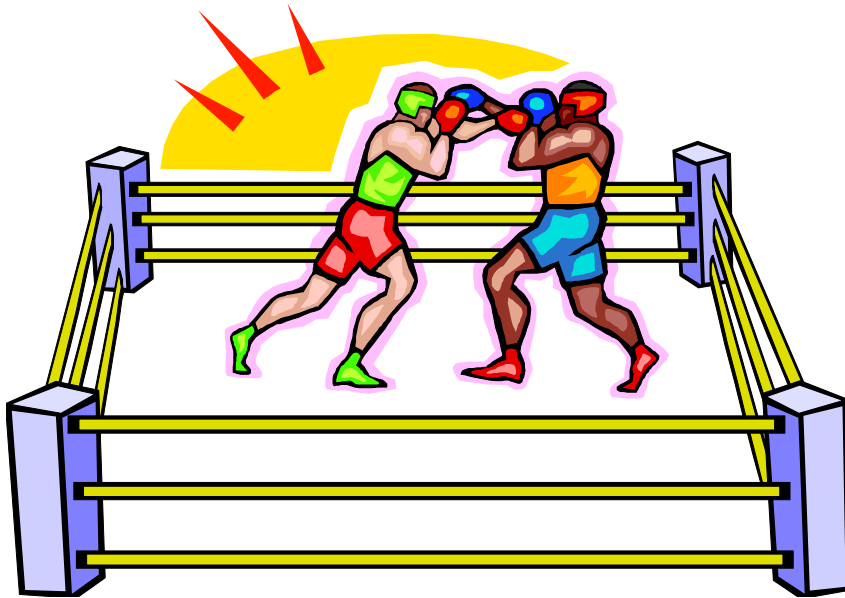


MXI - PROD - Common Storage Usage ----- Row 1 of 69
Command ==> Scroll ==> PAGE

Active	JES2	----Job Started----		-----Storage Allocated-----			
Jobname	JobID	Date	Time	CSA	E-CSA	SQA	E-SQA
TOTAL				326080	26169032	369752	7806880
MASTER		2000/02/07	19.25.27	94792	841704	55656	907208
SYSTEM				62520	10851000	259552	4662408
DSN6MSTR	STC09981	2000/02/07	19.25.57	32704	1534800	896	4848
RACF		2000/02/07	19.25.27	31912	51776	64	416
JES2				27992	3270120	64	1584
CPTCECSM	STC09970	2000/02/07	19.25.53	12952	132624	4072	768
CPTMVTAM	STC09972	2000/02/07	19.25.53	11144	175184	4616	384
NET	STC09945	2000/02/07	19.25.25	9976	3124488	0	352
CATALOG				8464	32144	2816	41904
TPX	STC03114	2000/02/12	18.05.47	7056	22840	9664	352

- Uses IBM Common Storage Tracking Data (PARMLIB DIAGxx)
- Same information as RMF III and OEM MVS Monitors

SHOWMVS vs. MXI



- Different but both have unique strengths. I use both!
- Both are updated frequently so stay current to have access to the latest features and information specific to the most recent OS/390 releases.

TASID System Information and more



TASID (pronounced tas-eye-dee) is a program that provides, among other things, information on system configuration, what is running on an OS/390 system (jobs, users, tasks, etc), ENQ contention information, current ENQs, Initiator information (JES2 only), DASD Space information, Allocated DD names, and storage displays. It is a free tool supplied by Doug Nadel (IBM)

- ISRDDN now includes many featured first seen in TASID
- TASID is very easy to install and is never APF authorized
- Many years distributed OCO only
- Not on web page but Doug has made assembler source built from PL/X available likely would do so again it cannot hurt to ask

The most current copy of TASID and many other useful Tools and Toys from Doug Nadel are always available through the web at <http://www.sillysot.com/mvs/>



TASID



File Navigate Settings

TASID option menu

Limited ENQ data

Option ==>

Select one of the following options:

Version 5.06c

- | | |
|-----------------------------|---------------------------------|
| 1 - Address space list | 5 - Miscellaneous displays |
| 2 - System ENQ contention | 6 - Current dataset allocations |
| 3 - Total system ENQ status | 7 - Storage View Facility |
| 4 - Initiator Status List | 8 - Snapshot |

More: +

Current time 15:40 on 2000/03/07	TSO users 47
Last IPL time 19:23 on 2000/02/07	Started tasks 34
IPL Parameters 1C4B PT 1	Jobs 3
OS/390 02.06.00 JES version JES2	System addr 25
SMF ID PROD JES level 2.5.0	Free initiators 9
User ID CSSJK RACF level 2.6.0	-----
Node JES2MVS TSO version 2.6.0	Total 118
VTAM Adr TPXGR206 VTAM Level 4.5	-----
Proc \$\$JKTEST DFSMS level 1.4.0	CPU utilization 27%
Region 255000K DSS Level 1.4.0	CPU 9672-R44 (2 CPUs)
RACF Grp TSOHOLD DSF level 1.16.	ENQ Contention None

TASID Current Dataset Allocations



- Compares to PDS LISTA screen but with less commands
- Detects common problem of mixed DSORG(s) under one ddname
- Provides a few basic commands to Browse, Edit, Compress, Free or perform some other simple functions with data sets already allocated to your session
- APF, LINK LIST, and LPA LIST libraries can be added to this list by command
- Data sets can be searched for members and the search can be restricted to a ddname

Command ==>		Current Dataset Allocations				Line 6 of 115	
						Scroll ==> CSR	
Blksz	Lrecl	RCFM	Org	Cmd	DDname	Data set Name (Line commands: E,B,C,F,V,I,Q)	
23200	80	U	PO	>	ISPLLIB	CSSJK.LOAD	
23200	80	U	PO	>		LSC.TOOLS.ISPLLIB	
6144	**	U	PO	>		EOY.SEOYLPA	
32760	**	U	PO	>		SYS1.SCBDHENU	
6320	80	FB	PO	>	ISPMLIB	CSSJK.ISPF.PANELS	
8800	80	FB	PO	>		ISP.SISPMENU	

Freeware Formats and Sources



- Many traditional distribution channels for the exchange for free software are no longer being maintained.
- Free software updates now must also be obtained from the Internet.
- Formats for software delivery on the Internet vary from those which long time users of S/390 free software may be familiar.

Internet Formats



- ZIP
- ZIP is standard for compression in most of the non-unix world
- Commercial ZIP utilities on PC such as PKZIP <http://www.pkware.com> or WinZIP <http://www.winzip.com>
- Info-ZIP is a freeware utility available at <http://www.cdrom.com/pub/infozip/Zip.html> for a large number of platforms including native OS/390 and OS/390 USS
- XMIT
- Using the TSO XMIT command is a convenient way to package data into standard FB records for safe transmission of the internet
- XMIT + ZIP
- XMIT packaged data sets which are then compressed with a ZIP utility such as PKZIP work especially well and are becoming a popular choice to distribute MVS software over the internet
- ASCII vs. EBCIDIC

How to download and restore XMIT + ZIP



Frequently files are packaged on MVS for transfer using the TSO transmit (XMIT) command to transmit them into a data set. This is done to turn PDS(s) and other odd files into nice FB 80 files which will FTP nicely to PC and UNIX systems. These files are downloaded to a PC and then compressed with PKZIP to reduce the size since disk space is limited and most people have limited bandwidth to download. The convention of files suffixed .XMI packaged in XMIT format is becoming common.

Download *name.ZIP* file to PC as using your web browser or an FTP client.

How to download and restore XMIT + ZIP



Extract name.XMI or name.DAT file from name.ZIP file on PC . You will need a small utility program to do this.

Commercial Unzipping programs like PKZip from Pkware <http://www.pkware.com> and WinZip from NicoMac <http://www.winzip.com> are excellent tools.

Freeware Unzipping programs are almost as good and many can be found by searching PC Freeware web sites such as [NoNags http://www.nonags.com](http://www.nonags.com) .

For Windows EnZip is a good one you can download from <http://www.cpam.freemove.co.uk>

How to download and restore XMIT + ZIP



Upload *name.XMI* files to MVS using a **binary** file transfer method (no CRLF or ASCII translation) and that the MVS dataset created is LRECL=80,RECFM=F,DSORG=PS Note that you can upload into a PDS if you want as long as it is FB80.

Receive the *name.XMI* file on MVS

Issue command: TSO **RECEIVE INDATASET(*name.XMI*)**

When prompted by message "INMR906A Enter restore parameters or 'DELETE' or 'END' +":

Enter: DA(*name.of.your.library*) UNIT(*unit*) VOLUME(*volume*)

Note: The UNIT() and VOLUME() operands are optional but shown in case your installation puts RECEIVE files on work packs by default like mine does

Trouble Downloading



- If you are having trouble downloading try to find out if you are behind a firewall. If you are behind a firewall and you cannot get your network folks to configure it to allow you to download using a web browser try getting an FTP client like the free Blue Zone FTP or WS_FTP that has a few firewall friendly options (PASV mode) that might help. Failing that download from home and email yourself the files or bring them in on a floppy as most are not that large.
- More hints at <http://www.cbttape.org/downloadtrouble.htm>

Xmit Manager

What is Xmit Manager?

Xmit Manager is a Free Windows based utility which decodes IBM Mainframe based Xmit files and allows for viewing or extraction of the content data.

Supports PDS, SEQ content, FTP to MVS or Internet, Zipped files. Written by Neal Johnston-Ward

It is on the CBT CD & Web Site too!

Xmit Manager Home Page

<http://www.data-aid.co.uk>



PDS Magician!

Patrick Allmond's freeware utility allows you to examine the contents of a TSO/E XMIT file on your Windows PC.

- On CBT CD-ROM
- Web site <http://www.atbsconsulting.com>
- Written in Visual Basic
- First public release February 2000
- Future enhancements may follow

You may also be interested in David Alcock's "UnXMIT Information Page" at

<http://www.planetmvs.com/unxmit/index.html>



Hercules - What is it?

- Hercules is a System/370, ESA/390 and z/Architecture emulator which can IPL and execute most of the instructions defined for these architectures. It can also emulate CKD and FBA DASD, printer, card reader, tape, channel-to-channel adapter, and local non-SNA 3270 devices.
- Currently runs under Linux or Windows experimental ports for other platforms
- Capable of running MVS/ESA, OS/390, VM/ESA, VSE/ESA and older Operating Systems such as MVT, MVS 3.8 and VM/370
- Refer to Session 2880 & 2881 in the proceeding
- Included on the CBT CD or download from the Internet

Hercules Home Page

<http://www.conmicro.cx/hercules>



Hercules - Where to get it?



Active User Community on Yahoo.

<http://groups.yahoo.com/group/hercules-390>

- Post message: hercules-390@yahoogroups.com
- Subscribe: hercules-390-subscribe@yahoogroups.com
- Unsubscribe: hercules-390-unsubscribe@yahoogroups.com
- List owner: hercules-390-owner@yahoogroups.com

New Users Documentation Effort for Hercules

<http://www.kiyoinc.com/hercdoc.html>

My Hercules links at:

<http://www.cbttape.org/links.phtml#Hercules>

Hercules - Turnkey CD



You are getting TWO CD-ROM(s) today! One of them is the Volker Bandke MVS Turnkey CD for Hercules Project.

It is a new MVS distribution (Revised June 2001) available for the Hercules world created by Volker Bandke. This distribution builds a useable system, complete with lots of spool and page space, all the CBT PDS data sets available as cataloged PDS files on 3350 disks, e few TSO command processors, RPF, etc.

This distribution is a turnkey system. You insert the CDRom, run setup, answer a few questions, and you have a fully functional MVS system on your hard disk. The system runs mostly off the CD-ROM, and takes about 30 MB of disk space on your hard disk. Installation is usually a matter of a few minutes.

<http://www.bsp-gmbh.com/hercules>

Where to get **FREE** software?

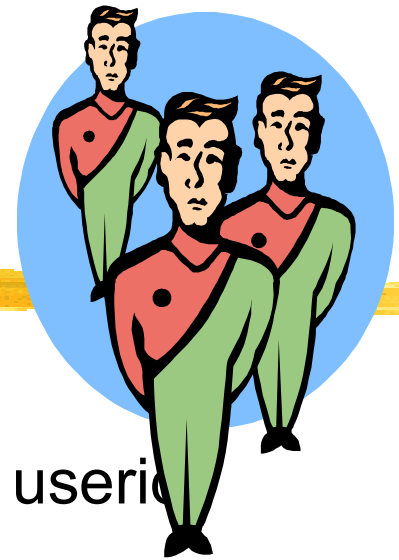
CBT

CBT Tape Home Page <http://www.cbttape.org>



- Download CBT Tape, CBT Overflow Tape, Pending updates to the CBT tape and other freeware collections. The files are stored primarily as XMIT + ZIP and when restored properly preserve all the original MVS attributes. No special user id's or memberships are required to download or to upload contributions.
- Free email list you can sign up for to receive notifications about updates to the CBT Tape and other interesting MVS Freeware. <http://www.cbttape.org/maillist.htm>

LOGON TSO same user



How to I modify my system to allow me to
LOGON to multiple systems with the same user id

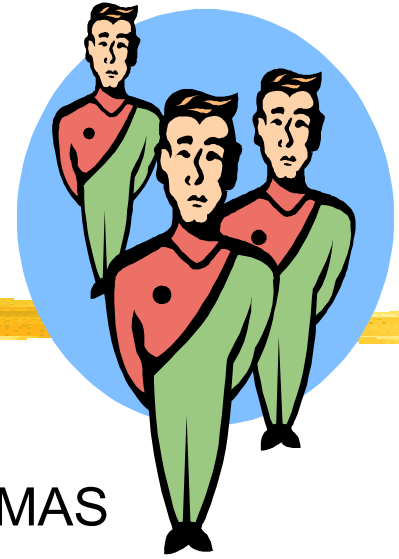
```
IKJ56425I LOGON rejected, UserId CSSJK already  
logged on to system PROD  
IKJ56400A ENTER LOGON OR LOGOFF-
```

- GRS or CA-MIM/MII enqueue handling of SYSIKJUA/userid

For GRS check GR SRNL00 you may have a statement like
this causing you to propagate SYSIKJUA sysplex wide.

```
RNLDEF RNL(INCL) TYPE(GENERIC)  
QNAME(SYSIKJUA)
```

LOGON TSO same user



- JES2 MAS considerations HASPCNVT simple
USERMOD or Exit 44 required if you wish to do this in a MAS
 - JES3 complex considerations USERMOD to IATGRJS required
 - ISPF data sets PROFILE, ISPF LIST, LOG, ISPCTL, and
ISPWK.
 - SDSF "Options" menu to set your console name to avoid collision
- PROFILE can be allocated differently on each system. How you do it depends on your needs. Other ISPF data sets can be addressed in ISPF Exits.

IBM Item RTA000089663 documents and provides sample code

Mark Zelden provides nice samples in his CBT Tape file # 434 which is included on the CD in the /cbt directory

Is the mainframe dead?



No! This is a recurring question on IBM-MAIN

Craig Mullins made a relevant post and provides a web page on this with a short article “The Living Mainframe” here
http://www.craigsmullins.com/cnr_mf.htm

From a Gartner Group report titled "IBM Mainframe Scenario and Residual Value Forecast" “The S/390 will remain a significant platform within the enterprise data center” .. “It will remain the best general-purpose system as characterized by high-availability high-security, high-volume”

IBM has shipped more than 1300 z900 processors since October 2000

Is the mainframe dead?



Revenge of the Dinosaurs editorial in August 2001 Enterprise Systems Journal quoted Xephon analyst Mary Lillycrop

“The S/390 may have missed out on the first wave of frenetic and chaotic e-business implementations but many enterprises now see it as the best platform for managing their new breed of mission-critical applications.”

Steve Comstock at Trainer’s Friend suggest trying to get back some mindshare before it’s too late at our shops by doing some internal marketing of the mainframe. Skeleton material at <http://www.trainersfriend.com> “Internal Marketing”. He suggests:

- have some events to involve a wider audience
 - open house / data center tour
 - brown bag luncheons to talk about applications
- reach out to internal publications, let them know there is a mainframe in-house and the role it plays
- build web pages on the corporate website that explain what the mainframe does, and who the relevant people are

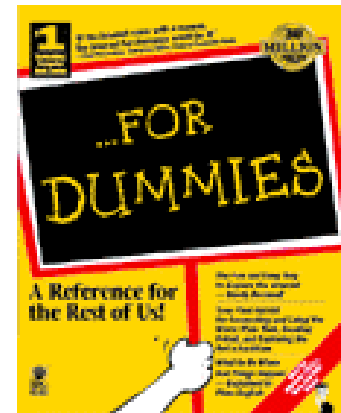
What is a mailing list and how do I find mailing lists?

- A mailing list is a free service you subscribe to that allows you to exchange email with others on a topic of mutual interest. For more information check out popular resources like Internet For Dummies®

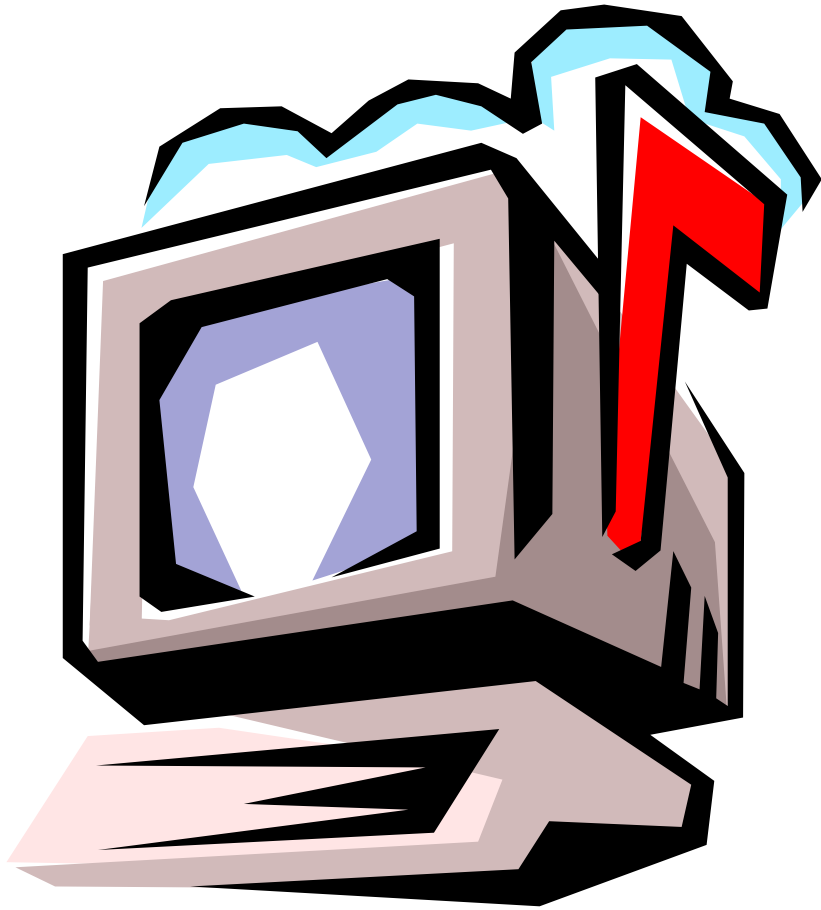
ISBN: 0-7645-0700-1.

- There are several catalogs of lists available on the web.

- My list <http://www.knutson.org/internet.htm>
- Catalog of LISTSERV lists <http://www.lsoft.com/lists/listref.html>
- Catalog of many lists including some other list servers i.e. majodomo, listproc, and listserv. <http://www.liszt.com>

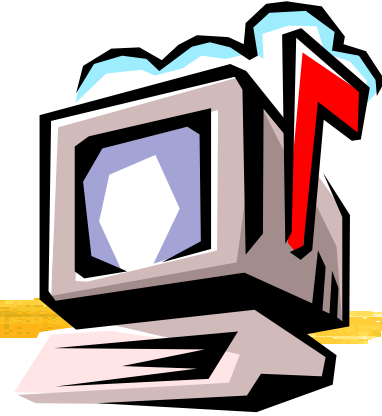


Mail Lists



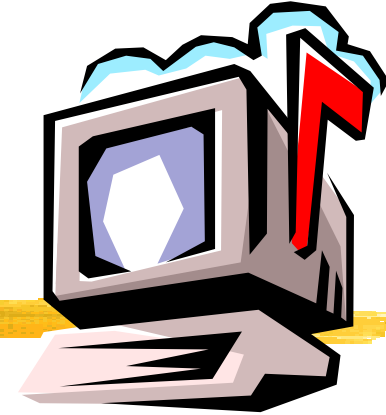
“To sum it all up, SHARE is now 365 days a year rather than 4 times a year.” Melinda Varian in “VM and VM Community: Past, Present, and Future” speaking about VMSHARE. VMSHARE is gone but lives on in spirit in the discussion groups which stretch across the globe using the Internet.

Mailing Lists



- Almost everyone knows how to send email so networking through email is a natural use for the Internet.
- A big part of networking is finding other people interested in the same things you are especially those who might be willing to help you. Mailing lists help people interested in the same thing exchange email.
- A mailing list works by allowing people to join the and then send a single email message that is relayed to all the list members. Responses to messages are also relayed to all list members.
- A list server program does the work of keeping track of list members and relaying the email messages. A real human being administers the list server and helps to resolve problems

How do I join or leave a mailing list?



- To join a LISTSERV mailing list you start by sending the list server an email message asking to be subscribed with the text “subscribe listname Joe User”
- So to join the IBM-MAIN mailing list I send a message like this one:

To: LISTSERV@bama.ua.edu

From: Sam Knutson <sknutson@cbttape.org>

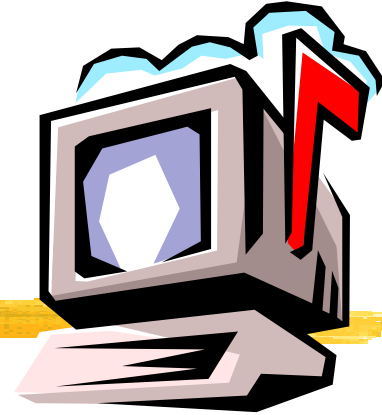
Subject: listserv

subscribe ibm-main Sam Knutson

To stop the mail from the list just send an email to LISTSERV@bama.ua.edu with the text **signoff ibm-main**

IMPORTANT

IBM-MAIN Archives



- You can also read and search on past messages on IBM-MAIN. This is a fabulous research tool easily as valuable as IBMLink even for those who do not care to follow the list antics on a daily basis.
- LISTSERV web interface an University of Alabama
<http://bama.ua.edu/archives/ibm-main.html>
- You can also read and search on past messages on IBM-MAIN using email and the SEARCH command i.e. Search IBM-MAIN "IGD0099E"
- Last and perhaps best you can use Google™ Groups to search the archives of bit.listserv.ibm-main (Hint this link is on the CBT links page)

http://groups.google.com/groups?oi=djq&as_ugroup=bit.listserv.ibm-main

Posting

Just send an email to the list..

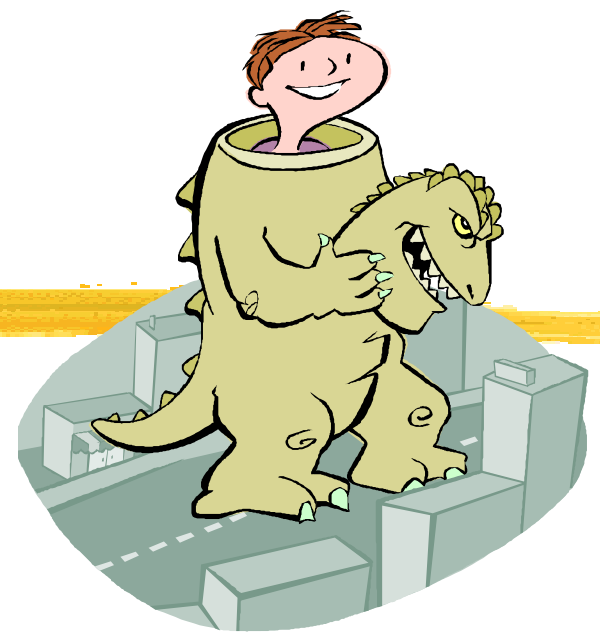
To: IBM-MAIN@bama.ua.edu

From: yourname

Subject: How do I enable SMS data set stripes?

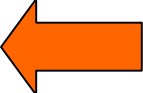
.....

Soon you may receive lots of helpful replies! A caveat is that once you stop lurking and decide to post you reveal your email address to everyone on the list and on UseNet (which is LOTS of people). You may receive unsolicited junk mail some of which may be offensive to you. This is often called SPAM. You can use services like HotMail or Juno to create throwaway accounts from which to post messages.

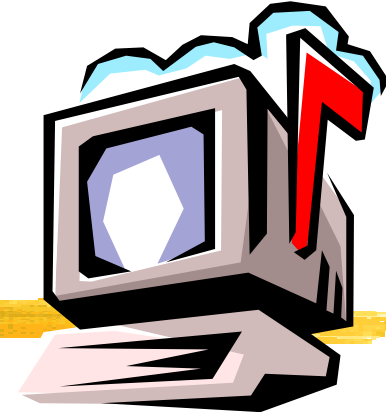


Ms. Manners on “Netiquette”



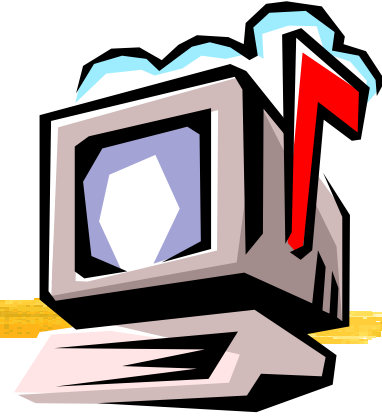
- Mailing lists just like any other social organization have an etiquette all their own. You will pick it up pretty quickly but here are a few tips.
- A good web site dedicated to Net etiquette is <http://www.etiquette.net> which includes links to the complete on-line copy of book *Netiquette* by Virginia Shea 
- DO read others posts for a week or two to get the flavor of the list before trying to post anything yourself. The list got along fine for years without your help it can get along for at least another week.
- DON'T ever send an attachment to the list.
- DON'T forward off-topic email like jokes or the latest hoax email chain letter to the list i.e. WARNING DO NOT OPEN ANY EMAIL WITH THE SUBJECT _____
- A good site for information on hoaxes is <http://www.vmyths.com> Also most of the major Anti-Virus sites provide some information on hoaxes.
- DON'T use automated out of office reply messages unless you take steps to make sure they don't go back out to mailing lists

Ms. Manners on “Netiquette”



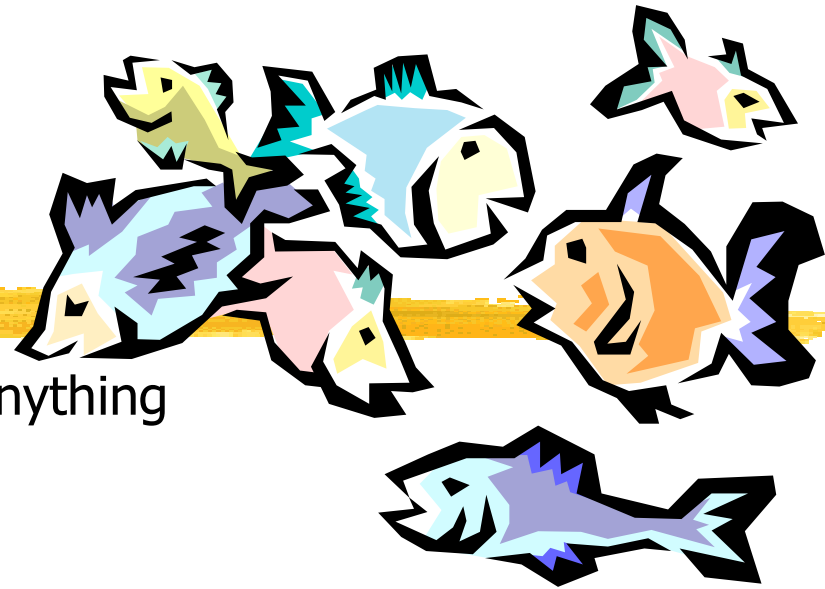
- DON'T send commands for the LISTSERV to the list. Be sure you send SET xxxx, SIGNOFF xxxx to LISTSERV@listaddress
- DON'T respond to inappropriate messages i.e. listserv commands and all the others things you know better than to send to the list. The only thing worse than reading a useless post is reading a useless post and 20 replies. The list manager will take care of this type of thing if it is really a problem. If you absolutely have to say something respond to the person's private email not to the list.
- DO send PLAIN text email to the list not Rich Text or HTML. Many people use email programs which don't display this type of content and it appears as useless attachments or garbage to them. Microsoft Outlook and Microsoft Exchange are two programs which frequently send Rich Text mail without the send being aware.

Common abbreviations



- IIRC - If I remember correctly
- AFAIK - As Far As I Know
- YMMV - Your Mileage May Vary
- IMHO - In My Humble Opinion
- RTFM - Read the manual - you could have and should have looked it up yourself
- OTOH - On The Other Hand
- BTW - By The Way
- TIA - Thanks in advance
- FWIW - For What Its Worth
- ISTR - I Seem To Remember
- PFC SK - Pimple Faced Computer Science Kids or Pimple Faced Client Server Kids

IBM-MAIN



- Topic: IBM S/390 Computing almost anything
Name: IBM-MAIN
Type: LISTSERV
Listserv: LISTSERV@bama.ua.edu
List: IBM-MAIN@bama.ua.edu
Web: <http://bama.ua.edu/archives/ibm-main.html>
News: bit.listserv.ibm-main
Weekday Message Volume: 100 - 200 (**High** consider setting DIGEST option)
More information: David Alcock's excellent Unofficial IBM-MAIN FAQ
<http://www.planetmvs.com/ibm-main/index.html>
Sam Knutson's LISTSERV Page <http://www.cbttape.org/internet.phtml>
and IBM-MAIN page <http://www.cbttape.org/ibm-main.htm>
- Notes: 20% - 40% off topic posts are not unusual i.e. high signal to noise ratio, however, the remaining content is great!

IBM-MAIN



“Thanks to all for the great replies. Having such talent available and willing to help is the best thing since sliced bread!”

Fred Schmidt

Posted Wed, 6 Dec 2000 on IBM-MAIN



Jerrie Stewart (IBM) quoted posts to IBM-MAIN in SHARE session 2412 z/OS Announcement Review to demonstrate customer experience. IBM-MAIN is not an official channel to IBM but clearly they do listen.

Google™



Google™ groups is a web site which allows you to read newsgroups with a web browser instead of using special newsreader software and finding a news server. You can also search the web for text, images, and use a Yahoo™ style directory.

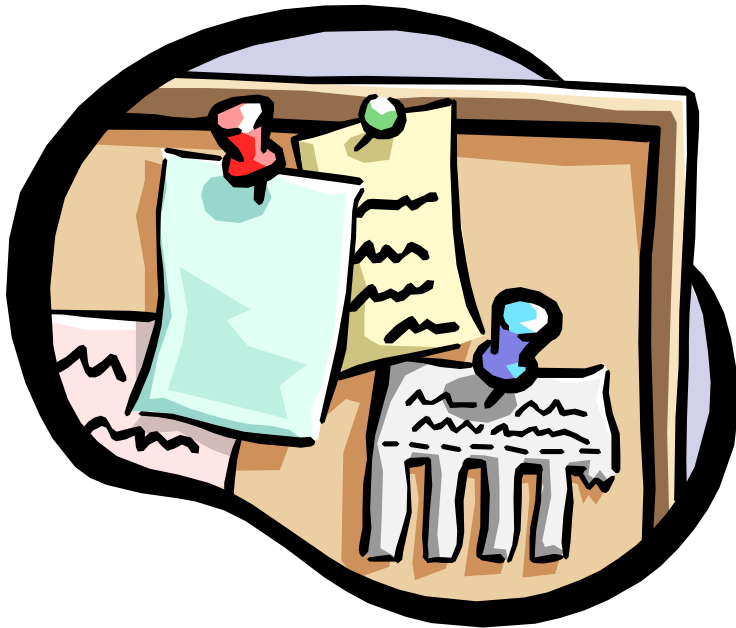
Google™ <http://www.google.com> fast, good, unbiased search engine

Google™ Groups <http://groups.google.com>

In order to post messages to many of the lists through these sites you still need to subscribe to the mail list and set to “nomail” if you don’t want email.

Google™ toolbar is an enhancement for your MS Internet Explorer web browser and I find it a highly useful one. It does not currently support anything other than MSIE. Find it <http://toolbar.google.com/>

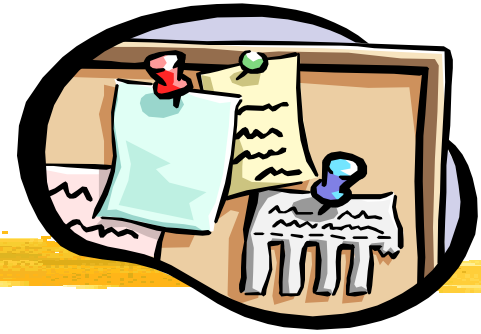
MVS Posting Boards



Posting Boards provide a web friendly bulletin board experience. Several are available that cater to MVS folk.

Make sure you post your notice in the right spot (e.g., if you are selling your golf clubs, advertise at the local golf course).

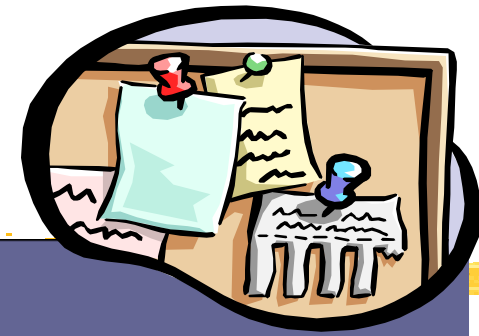
MainFrameForum



Mainframeforum <http://www.mainframeforum.com>

- Launched May 29, 2001 it's free
- Mainframeforum currently has no ads but watch this space
- You will need to register. Information needed is minimal, mostly optional.
- The forum software offers many features including a powerful search engine.
- Many topics are covered with the Administrator dividing the board into many pre-defined topic areas
- Recently added USENET archives

MainFrameForum



MainFrameForum cforum.com






[user cp](#) [chat](#) [register](#) [calendar](#) [members](#) [f.a.q.](#) [search](#) [home](#) [USENET](#) [log out](#)

hosted by SPAGIRIK

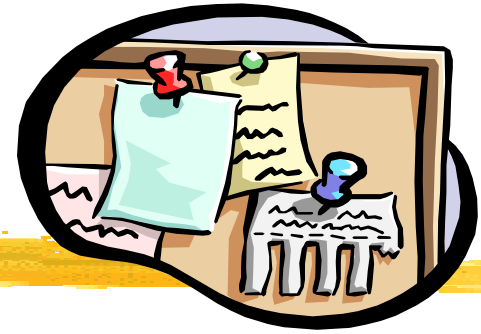
DEMO
MODE

[MainFrameForum](#) > [OS - IBM; OS/390 and z/OS - Base and Components](#) > [TSO/E](#) > **Renaming a gdg base. Is it possible ?**

[◀ Last Thread](#) [Next Thread ▶](#)

Author	Thread
<p>Koenig  Junior Member</p> <p>Registered: Jun 2001 Location: Canada Posts: 5</p>	<p> Renaming a gdg base. Is it possible ?</p> <p>I don't know where to put this so I chose the TSO subject.</p> <p>Let's say I have a simple GDG base with no datasets yet associated. Is there a way to rename it easily or do I have to delete it and redefine it ?</p> <p>The RENAME and ALTER don't seem to work.</p> <p>Thanks.</p> <p>Report this post to a moderator IP: Logged</p>
<p>  19th July 2001 16:35</p>	<p>profile pm search buddy</p> <p>edit quote</p>
<p>Bob Richards  Junior Member</p>	<p>GDG BASE Name Change</p> <p>You have to delete and redefine it. Otherwise, all the GDG datasets underneath it</p>

MVSHHELP



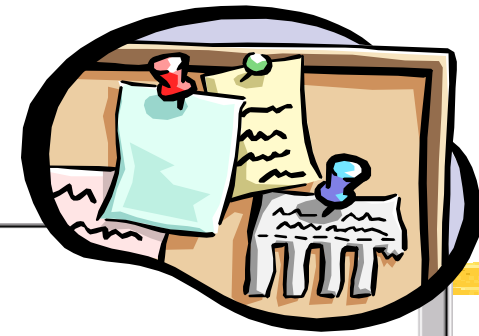
MVSHHELP <http://mvshelp.com/>

- Arrived early
- growing following including many from IBM-MAIN
- Free, does include ads
- Requires a simple registration to use
- Less finely defined topics, lots more activity
- Appears to be the pick of the litter in this type of facility

MVSHHELP



- Mvshelp Help Boards
- c) Sort, Utilities
- FREE=CLOSE on SORTOUT



[UBBFriend: Email This Page to Someone!](#)

[Post New Topic](#)

[Post Reply](#)

[profile](#) | [register](#) | [preferences](#) | [faq](#) | [search](#)

[next newest topic](#) | [next oldest topic](#)

Author	Topic: FREE=CLOSE on SORTOUT
John Mindock Sr. Member	<p> posted 07-25-2001 11:15 AM </p> <p>From the DFSORT manual (July, 2000):</p> <p>When using DFSORT applications, FREE=CLOSE cannot be used on any DD statements except DFSPARM</p> <p>We have some JCL with this on it, on the SORTOUT dataset. The SORTOUT is actually going to SYSOUT.</p> <p>Is FREE=CLOSE simply being ignored? Any caveats to leaving it there?</p> <p>Thanks John</p> <p style="text-align: right;">IP: Logged</p>
Frank Yaeger Moderator	<p> posted 07-25-2001 11:52 AM </p> <p>If I remember correctly, with FREE=CLOSE the ddname is deallocated when the data</p>

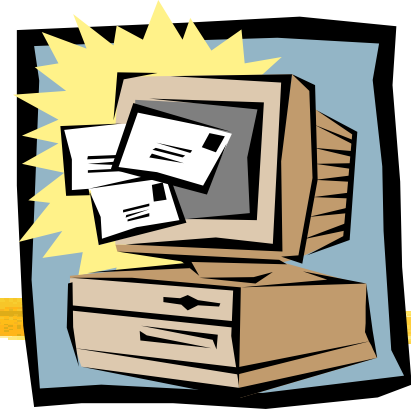
SHARE Members Only

Located at <http://www.share.org/members>

- ➔ • Mail-List Repository with 6 month read-only, searchable archive of many lists including IBM-MAIN.
- ➔ • Proceedings Archive back to SHARE 92
San Francisco February 1999
- A few sessions available as Web Casts
- Download Area (not current)
- Requirements (Work in Progress?)
- Requires registration to use



Other email newsletters



- IBM e-business and Software News Alert
<http://www.ibm.com/software/news-alert/subscribe.html>

- Cheryl's List (free Performance, Tuning, and Tidbits)
<http://www.watsonwalker.com/feed.html>

IBM Red Alerts “APARs of Death”

<http://techsupport.services.ibm.com/390/redalerts.html>

Who me? Contribute to the CBT Tape or CD-ROM? Why not!



Send contributions to the CBT Tape to Sam Golob and call or email him. Send contributions only suited for the CD-ROM to Sam Knutson.

Most contributions are now made via email over the Internet. To contribute, it is preferred that you make a PDS on an MVS system, including documentation member(s), put the pds into TSO XMIT OUTDSN format, download it in binary to the PC (if you need to), and attach it to an email to Sam at: sbgolob@attglobal.net

If the file is large, you can PKZIP it on the PC, before attaching it to the email. That's all there is to it!

If you want to send anything any other way, Sam Golob's address is:

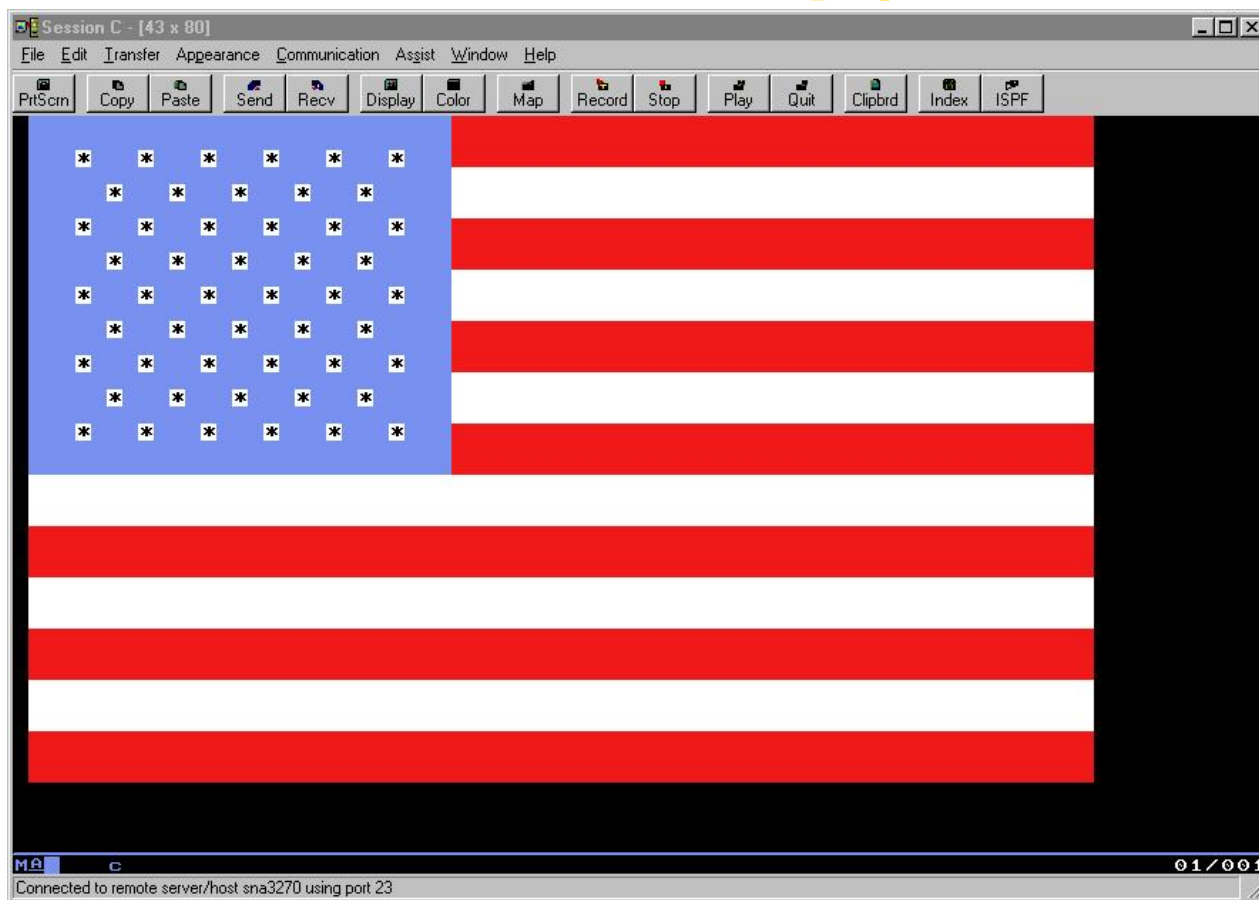
Sam Golob, P.O. Box 906, Tallman, NY 10982-0906 USA

Errata and more information after SHARE



- The foils from this presentation as well as any additions or corrections will be posted at my web site following the SHARE conference and will be in the proceedings.
- <http://www.knutson.org/share98.htm>
- Feel free to call me at (703) 464-1615 or email me at sknutson@landmark.com or sknutson@cbttape.org
Please send any additions or corrections I would be glad to include them.

Just for fun!



Ed Jaffe
built a
USA Flag
with 3270
buffer
orders



Download <ftp://ftp.phoenixsoftware.com/pub/demo/flagtso.xmi>

Screen capture <http://www.cbttape.org/ftp/adhoc/flagtso.jpg>

Just for fun!

Buy Geek Stuff

- <http://www.thinkgeek.com>
- <http://www.copyleft.net>
- <http://www.mainframesareback.com>

Addiction du Jour (Bedeviled by Bejeweled)

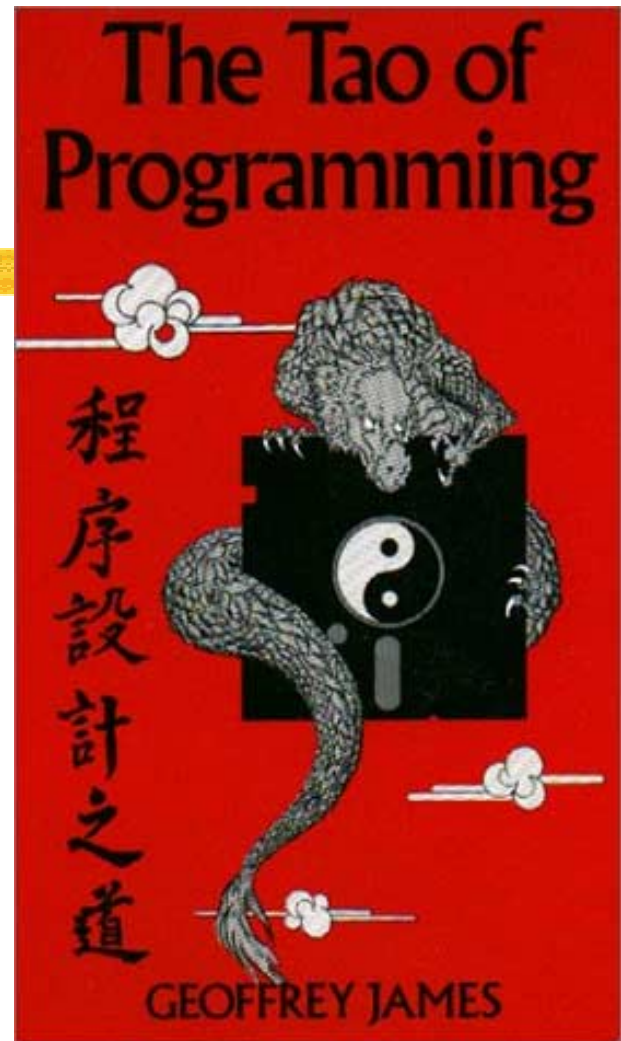
- <http://www.popcap.com>

Some funny Canadian's

- <http://www.mp3.com/deadtroll>

Some funny cartoons

- <http://www.userfriendly.org/static/>
- <http://www.dilbert.com/>



<http://www.isbn.nu/0931137071>

Thus spake the master programmer: "Time for you to leave."

The End

THANK YOU



Please fill out your session evaluations.