

Mainframe Topics

Kapitel 4

Virtualisierung auf dem Mainframe

Get in touch with z/VM

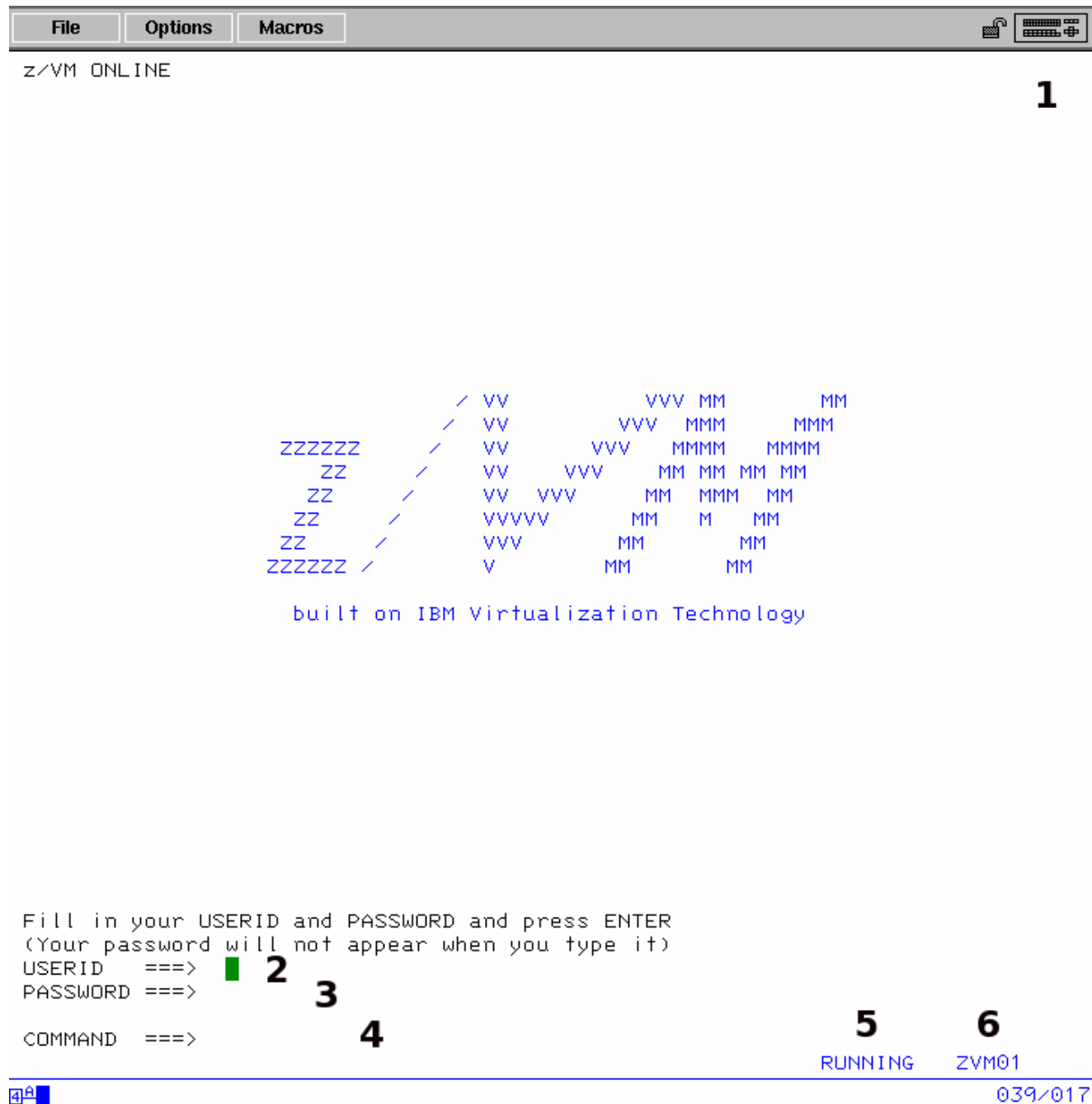
Frank Heimes

Senior IT Architect & Technical Lead for Ubuntu on z
Canonical Ltd.

Lab Objectives

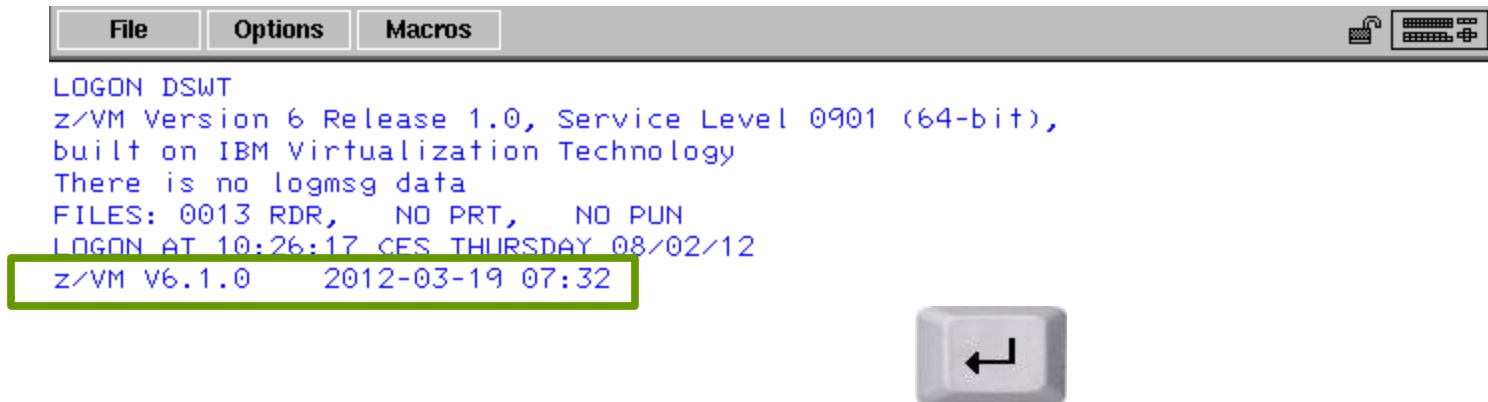
- This section will discuss:
 - Accessing and exiting your z/VM system
 - How to use the *filelist* command
 - *Filelist* introduction information
 - Accessing help directories and files
- This section assumes that you:
 - Have access to a z/VM system, maybe through an emulator

Logon Screen



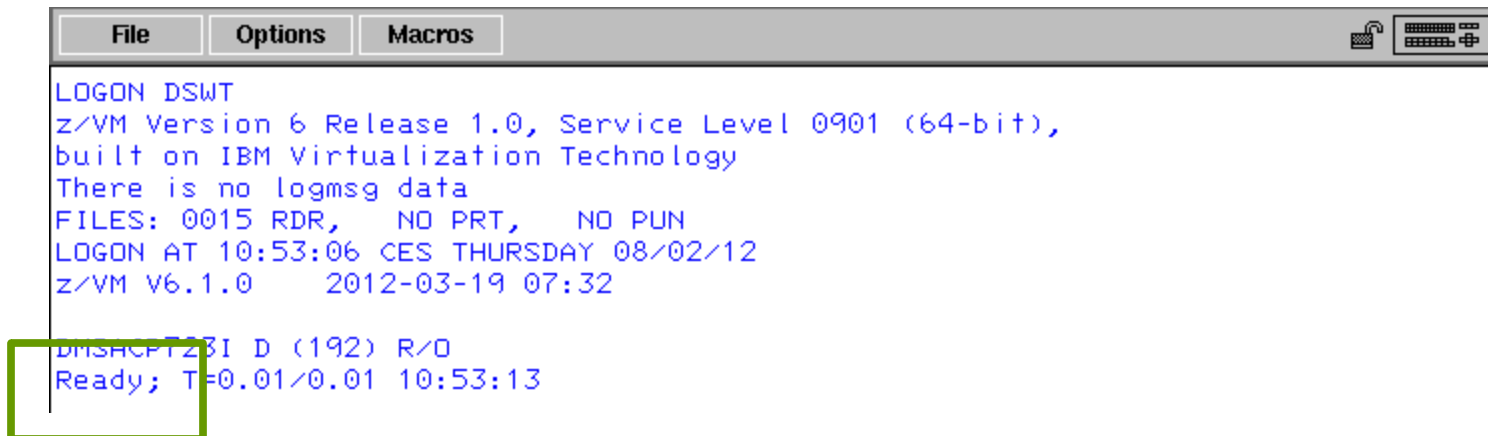
Got a message?

After Logon



A screenshot of a z/VM console window. The window has a menu bar with 'File', 'Options', and 'Macros'. The text displayed is in blue monospace font. The last line, 'z/VM V6.1.0 2012-03-19 07:32', is highlighted with a green box. To the right of the text is a large, light gray arrow key icon.

```
LOGON DSWT
z/VM Version 6 Release 1.0, Service Level 0901 (64-bit),
built on IBM Virtualization Technology
There is no logmsg data
FILES: 0013 RDR, NO PRT, NO PUN
LOGON AT 10:26:17 CES THURSDAY 08/02/12
z/VM V6.1.0 2012-03-19 07:32
```

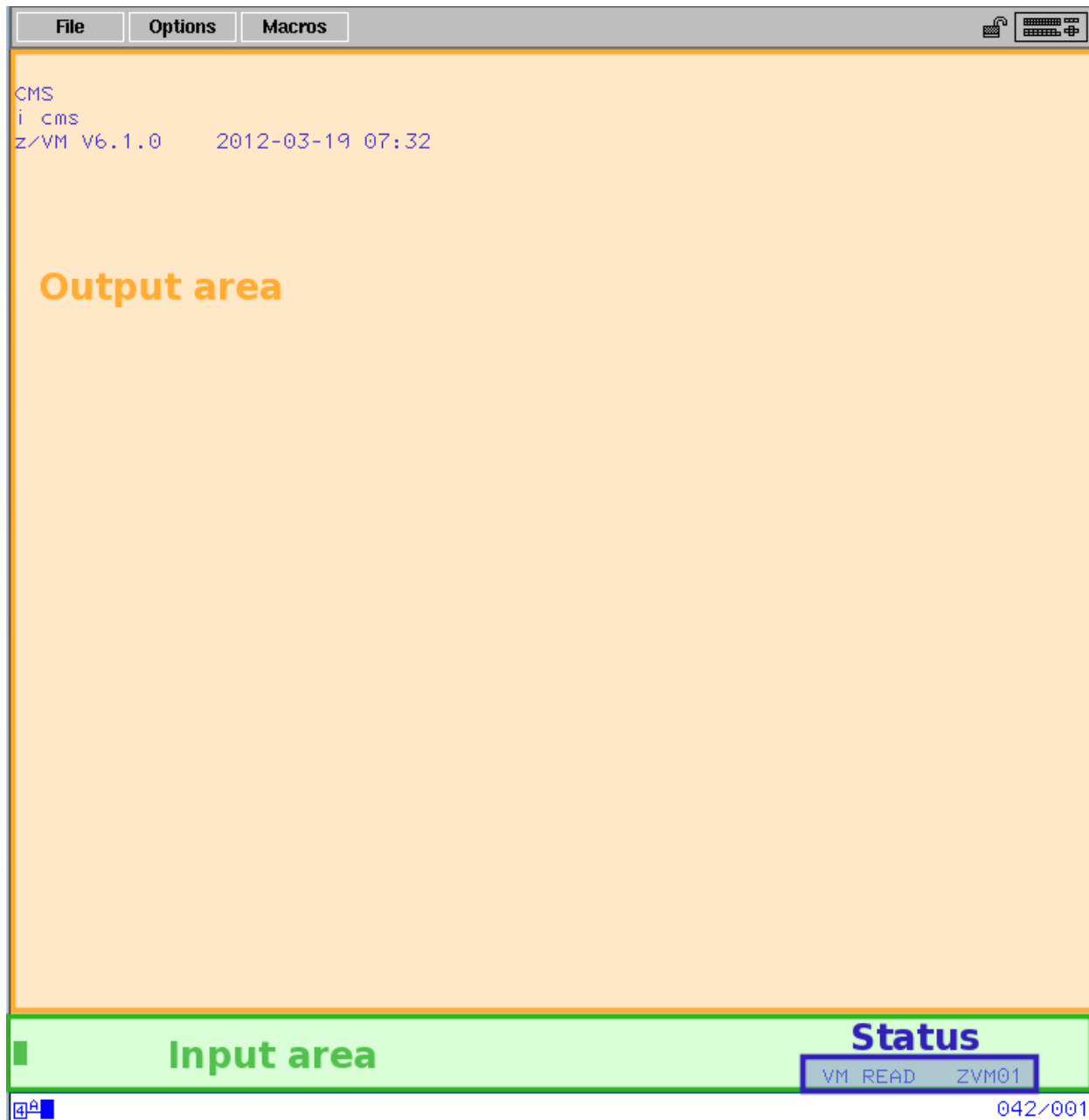


A second screenshot of the z/VM console window, showing the state after a program load. The text is the same as the first screenshot, but with an additional line at the bottom: 'Ready; T=0.01/0.01 10:53:13'. This new line is highlighted with a green box.

```
LOGON DSWT
z/VM Version 6 Release 1.0, Service Level 0901 (64-bit),
built on IBM Virtualization Technology
There is no logmsg data
FILES: 0015 RDR, NO PRT, NO PUN
LOGON AT 10:53:06 CES THURSDAY 08/02/12
z/VM V6.1.0 2012-03-19 07:32
DMSHCP231 D (192) R/D
Ready; T=0.01/0.01 10:53:13
```

To restart the cms, make an Initial program load:
ipl cms or just **i cms** (Conversational Monitor System)

Virtual Console



Logging Out

logoff (log)

Ready; T=0.01/0.01 07:34:00

log

CONNECT= 99:59:59 VIRTCPU= 000:00.01 TOTCPU= 000:00.02

LOGOFF AT 07:34:03 CET MONDAY 08/13/12

Press enter or clear key to continue

disconnect (disc)

Ready; T=0.01/0.01 08:03:06

disc

DISCONNECT AT 08:03:10 CET MONDAY 08/13/12

Press enter or clear key to continue

Understanding Your z/VM System

First you will need to log on to your z/VM system, to begin learning about your system.

PA Keys



Vista Session A

File Edit Font Transfer Macro Options Window Help

Ready; T=0.08/0.09 14:12:05

x3270-4 localhost:10023

z/VM ONLINE

```

ZZZZZZ / VV      VVV MM      MM
ZZ      / VV      VVV MMM     MMM
ZZ      / VV      VVV MMMM    MMMM
ZZ      / VV      VVV MM MM   MM
ZZ      / VV      VVV MM MM   MM
ZZZZZZ / VV      VVV MM      MM
          V      MM      MM
    
```

built on IBM Virtualization Technology

Fill in your USERID and PASSWORD and press ENTER
(Your password will not appear when you type it)

USERID ==> █

PASSWORD ==>

COMMAND ==>

RUNNING ZVM01

039/017

x3270 K

PF1	PF2	PF3
PF4	PF5	PF6
PF7	PF8	PF9
PF10	PF11	PF12
↑		
←	↶	→
⌘	↓	↷
PA1	PA2	PA3
←	→	
Clear	Reset	
Erase EOF	Erase Input	
Dup	Field Mark	
Sys Req	Cursor Select	
Attn	Compose	
↶	Enter	

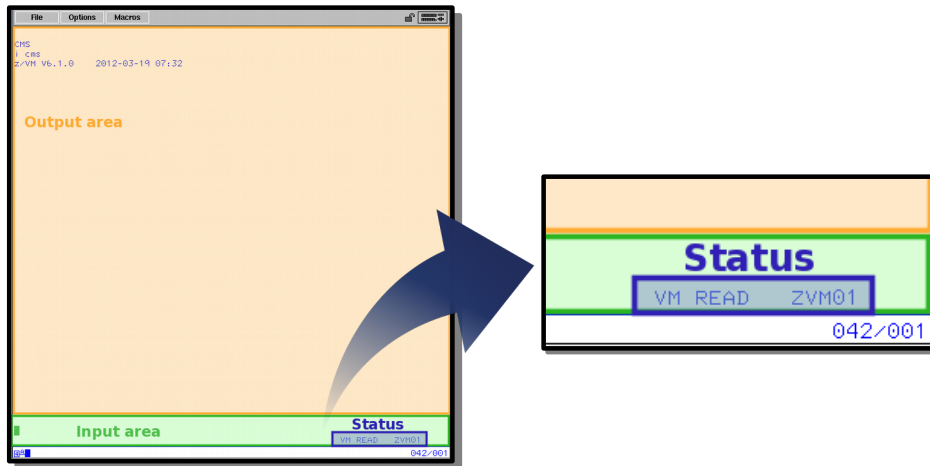
Vista Session A

PA1	PA2	PA3
! Attn	Clear	Reset
△ ErsEof	ErsInp	Sysreq
⌘ FldMk	✖ Dup	Enter

VM Read MARIST

PM vm.marist.edu a 23,1

Status Awareness



- Running ZVM01
- VM Read ZVM01
- CP Read ZVM01
- HOLDING ZVM01
- MORE ZVM01
- NOT ACCEPTED ZVM01

Status Awareness Description



CP READ ... PA1

Sie sind direkt mit dem CP verbunden und das CP erwartet eine Eingabe von Ihnen, z. B. den Befehl LOGON. Auch wenn Sie bereits das CMS gestartet haben, können Sie jederzeit den 'direkten Weg zum CP' einschlagen, indem Sie die Taste PA1 drücken.

Ein zweites Drücken dieser Taste verbindet Sie wieder mit dem CMS. (Im Modus 'FULLSCREEN ON' hat die Taste PA1 eine andere Funktion.)

VMREAD ... ENTER

Sie sind mit dem CMS verbunden und das CMS erwartet eine Eingabe von Ihnen (z. B. das Drücken der ENTER-Taste zum Vervollständigen des IPL-Vorgangs).

RUNNING ...

Das CMS ist in Ihrer virtuellen Maschine aktiv. Es läuft ein Programm oder aber das CMS erwartet keine unmittelbare Antwort von Ihnen.

NOT ACCEPTED ... CLEAR/LOSCH ?

Sie haben versucht, während der Ausführung eines Programms einen Befehl (oder irgend etwas anderes) einzugeben, aber der Eingabe-puffer der Datenstation ist voll. Warten Sie, bis der Puffer 'abgearbeitet' ist.

MORE... ... CLEAR/LOSCH | PA2

Das CMS (oder das CP) will eine Ausgabe auf den Schirm bringen, aber der Ausgabebereich ist voll. Sie haben drei Möglichkeiten:

- 1) Sie löschen den Bildschirm mit Hilfe der Taste CLEAR/LÖSCH oder der Taste PA2
- 2) Sie reagieren gar nicht. Dann ertönt nach 50 Sekunden ein Piepton und nach weiteren 10 Sekunden wird automatisch umgeblättert.
- 3) Sie drücken die ENTER-Taste (s. nächster Bildschirmstatus, 'HOLDING...'). Sie waren im Status 'MORE...' und haben die ENTER-Taste gedrückt. Nun bleibt der Bildschirminhalt bestehen, bis Sie 'CLEAR/LOSCH' oder 'PA2' drücken. Der Schirm wird nicht nach einer Minute automatisch gelöscht.

HOLDING ... CLEAR/LOSCH | PA2

Sie waren im Status 'MORE...' und haben die ENTER-Taste gedrückt.

Nun bleibt der Bildschirminhalt bestehen, bis Sie 'CLEAR/LOSCH' oder 'PA2' drücken. Der Schirm wird nicht nach einer Minute automatisch gelöscht.

Cylinder and MByte

Typ	Zylinder	Kapazität in Byte	Kapazität in MByte
3390-1	1113	948 810 240	904
3390-2	2226	1 897 620 480	1 809
3390-3	3339	2 846 430 720	2 714
3390-9	10017	8 539 292 160	8 143
3390-27	32760	27 927 244 800	26 633
3390-54	65520	55 854 489 600	53 266



1 Zylinder entspricht ca. 1.23 MB

1 MB entspricht ca. 0.81 Zylinder

Filelist Command

file name
file type
directory (Fm)

== > filel * * *

Sort:

PF 4 (type)

PF 5 (date)

PF 6 (size)

File Options Macros									
MAINT	FILELIST A0	V 169	Trunc=169	Size=90	Line=1	Col=1	Alt=91		
Cmd	Filename	Filetype	Fm	Format	Lrec1	Records	Blocks	Date	Time
	USER	WITHPASS	A0 F		80	2684	53	7/30/12	10:30:16
	USER	DIREWRKS	A1 F		80	2137	42	3/27/12	14:43:58
	\$VMFP2P	\$MSGLOG	A1 V		80	2055	38	3/23/12	8:53:57
	CMSLOAD	\$NUCEXEC	A1 F		80	1682	33	3/19/12	7:32:14
	\$VMFBLD	\$MSGLOG	A1 V		80	877	12	3/23/12	8:53:41
	\$VMFSRV	\$MSGLOG	A1 V		80	626	12	3/22/12	10:07:58
	PUT2PROD	\$CONS	A1 V		132	276	10	3/23/12	8:53:57
	USER	DISKMAP	A1 F		80	413	9	4/04/12	14:53:45
	TCP2PROD	\$MSGLOG	A1 V		88	263	4	3/19/12	7:35:49
	BFS	LBFSLOG	A1 V		105	181	4	3/19/12	7:26:03
	SHELL	LBFSLOG	A1 V		91	179	4	3/19/12	7:26:08
	CPFORMAT	EXEC	A1 V		79	252	3	3/22/12	5:37:04
	\$VMFMRD	\$MSGLOG	A1 V		80	196	3	3/19/12	7:36:32
	\$VMFAPP	\$MSGLOG	A1 V		80	185	3	3/19/12	7:32:38
	\$VMFINS	\$MSGLOG	A1 V		80	181	3	3/22/12	10:07:46
	SERVICE	\$CONS	A1 V		132	74	3	3/22/12	10:07:58
	PROFILE	DSWT	A1 V		72	189	2	4/05/12	17:49:16
	PROFILE	XEDIT	A1 V		72	189	2	3/27/12	13:14:02
	EXTENT	CONTROL	A2 V		70	132	2	7/26/12	13:36:16
	SETUP	\$LINKS	A1 V		25	70	1	3/23/12	8:53:56
	LABPASS	TEXT	A1 F		80	40	1	7/27/12	17:52:31
	USERLIST	TEXT	A1 F		80	40	1	7/30/12	12:37:11
	6VMCMS10	PSUPLAN	A1 V		72	35	1	3/19/12	7:32:07
	6VMCPR10	PSUPLAN	A1 V		72	35	1	3/19/12	7:32:18
	5VMHCD40	PSUPLAN	A1 V		72	33	1	3/19/12	7:32:34
	6VMTCP10	PSUPLAN	A1 V		72	33	1	3/19/12	7:32:27
	CREATLAB	EXEC	A1 V		46	30	1	7/30/12	8:50:22
	LDAPSRV	LBFSLOG	A1 V		102	28	1	3/19/12	7:35:47
	CREATEUS	EXEC	A1 V		51	25	1	7/30/12	9:44:04
	LASTING	GLOBALV	A1 V		77	24	1	8/02/12	8:40:42
	PROFILE	EXEC	A1 V		31	17	1	4/22/05	8:56:05
	PROFILE	XEDORIG	A1 V		45	17	1	3/27/12	10:53:12
	200001	AUTOSAVE	A1 F		78	16	1	8/02/12	9:19:29
	IBMDFLT	DIRECT	A0 F		80	15	1	7/26/12	14:18:51
	INS	6101	A1 V		39	12	1	9/15/09	15:07:09
	LXMARC02	DIRECT	A0 F		80	11	1	4/05/12	17:50:35
1= Help 2= Refresh 3= Quit 4= Sort(type) 5= Sort(date) 6= Sort(size)									
7= Backward 8= Forward 9= FL /n 10= 11= XEDIT/LIST 12= Cursor									
====>									
X E D I T 1 File									
003/001									

Using the FILELIST Command

==> filel * * b

When you enter the command, FILELIST * * b you get a filelist screen of all files found in the minidisk B (B1, B2 ...):

File Options Macros										
MAINT FILELIST A0 V 169 Trunc=169 Size=129 Line=1 Col=1 Alt=0										
Cmd	Filename	Filetype	Fm	Format	Lrec1	Records	Blocks	Date	Time	
	MAINT	NETLOG	B0 V		106	47	2	7/31/12	19:13:02	
	VMSES	PARTCAT	B1 V		84	127	3	6/12/09	9:02:35	
	VMFUME	TEXT	B2 F		80	3088	61	6/10/09	9:50:10	
	VMFUMEB	TEXT	B2 F		80	3088	61	6/10/09	9:50:10	
	ITNUME	TEXT	B1 F		80	104	3	6/10/09	9:50:09	
	VMFUMEA	TEXT	B2 F		80	3088	61	6/10/09	9:50:09	
	VMFUPA	TEXT	B2 F		80	1036	21	6/10/09	9:50:08	
	VMFUPAA	TEXT	B2 F		80	1036	21	6/10/09	9:50:08	
	VMFUPAB	TEXT	B2 F		80	1036	21	6/10/09	9:50:08	
	VMFUSY	TEXT	B2 F		80	26	1	6/10/09	9:50:08	
	VMFUSYA	TEXT	B2 F		80	26	1	6/10/09	9:50:08	
	VMFUSYB	TEXT	B2 F		80	26	1	6/10/09	9:50:08	
	VMFE2E	MODULE	B2 V		6328	3	2	5/08/09	7:20:07	
	VMFHASHM	MODULE	B2 V		1736	3	1	5/08/09	7:20:07	
	VMFLDS	MODULE	B2 V		12208	3	4	5/08/09	7:20:07	
	VMFRDTBL	MODULE	B2 V		8376	3	3	5/08/09	7:20:07	
	VMFRTNS	MODULE	B2 V		11560	3	4	5/08/09	7:20:07	
	MIGRATE	EXEC	B2 V		63	3873	27	5/08/09	7:19:52	
	VM	SYSABRYT	B2 V		53	2166	30	5/07/09	13:21:20	
	ZVMSEGS	BLDDATA	B1 F		80	16	1	3/30/09	14:31:27	
	CMSSEGS	BLDDATA	B1 F		80	16	1	3/30/09	14:31:21	
	VMFINF\$	XEDIT	B2 V		63	4170	29	3/20/09	14:37:18	
	VMFDATE	REXX	B2 V		62	43	1	3/20/09	14:23:40	
	VMFMKOV	XEDIT	B2 V		88	2974	24	3/20/09	14:23:38	
	VMFSPLTP	XEDIT	B2 V		83	109	2	3/20/09	14:23:38	
	VMFSPTCC	XEDIT	B2 V		79	117	2	3/20/09	14:23:38	
	VMFUHXED	XEDIT	B2 V		71	215	2	3/20/09	14:23:38	
	VMFUPXED	XEDIT	B2 V		71	2595	19	3/20/09	14:23:38	
	\$VMFSGM\$	XEDIT	B2 V		72	4120	30	3/20/09	14:23:37	
	\$VMFVW2\$	XEDIT	B2 V		62	132	2	3/20/09	14:23:37	
	VMFBRWSE	XEDIT	B2 V		82	229	2	3/20/09	14:23:37	
	VMFSPLIT	XEDIT	B2 V		76	564	5	3/20/09	14:23:37	
	VMFSPLTC	XEDIT	B2 V		84	73	1	3/20/09	14:23:37	
	\$LDR\$	XEDIT	B2 V		63	243	4	3/20/09	14:23:36	
	\$VMFVW1\$	XEDIT	B2 V		62	196	2	3/20/09	14:23:36	
	VMFUPDAT	EXEC	B2 V		61	43	1	3/20/09	14:23:36	
1= Help 2= Refresh 3= Quit 4= Sort(type) 5= Sort(date) 6= Sort(size)										
7= Backward 8= Forward 9= FL /n 10= 11= XEDIT/LIST 12= Cursor										
====>										
X E D I T 1 File										
003/001										

Using the FILELIST Command

File Options Macros									
DSWT FILELIST A0 V 169 Trunc=169 Size=37 Line=1 Col=1 Alt=0									
Cmd	Filename	Filetype	Fm	Format	Lrecl	Records	Blocks	Date	Time
	IPFORMAT	EXEC	D2	F	1024	260	65	5/11/09	10:46:19
	VMFC	EXEC	D2	V	72	347	5	5/08/09	7:33:17
	VMFPAS	EXEC	D2	V	68	290	5	5/08/09	7:33:17
	TCPSLV	EXEC	D2	V	79	406	4	5/08/09	7:33:16
	TCPTXT	EXEC	D2	V	73	179	2	5/08/09	7:33:16
	TCPMMSG	EXEC	D2	V	71	184	4	5/08/09	7:33:13
	TCPOBJCT	EXEC	D2	V	72	438	5	5/08/09	7:33:13
	TCPLDAD	EXEC	D2	V	72	311	3	5/08/09	7:33:12
	TCPCOMP	EXEC	D2	V	72	216	3	5/08/09	7:33:11
	RESOLV	EXEC	D2	V	72	226	3	5/08/09	7:32:57
	RXSNDIU	EXEC	D2	V	72	281	5	5/08/09	7:32:57
	SMTPQUEU	EXEC	D2	V	73	228	3	5/08/09	7:32:57
	NFSPERM	EXEC	D2	V	72	133	2	5/08/09	7:32:56
	NSLOOKUP	EXEC	D2	V	72	52	1	5/08/09	7:32:56
	NDBUTC	EXEC	D2	V	73	78	1	5/08/09	7:32:55
	NETSTAT	EXEC	D2	V	72	208	4	5/08/09	7:32:55
	LPR	EXEC	D2	V	72	2405	22	5/08/09	7:32:54
	LPRSET	EXEC	D2	V	71	1182	11	5/08/09	7:32:54
	NDBINIT	EXEC	D2	V	72	42	1	5/08/09	7:32:54
	LDAPDLET	EXEC	D2	V	73	39	1	5/08/09	7:32:53
	LDAPSRCH	EXEC	D2	V	73	39	1	5/08/09	7:32:53
	LDAPMDFY	EXEC	D2	V	73	39	1	5/08/09	7:32:52
	LDAPMRDN	EXEC	D2	V	73	39	1	5/08/09	7:32:52
	KRBSAMP	EXEC	D2	V	72	44	1	5/08/09	7:32:51
	LDAPADD	EXEC	D2	V	73	39	1	5/08/09	7:32:51
	LDAPCMR	EXEC	D2	V	73	39	1	5/08/09	7:32:51
	IMAPADM	EXEC	D2	V	73	153	2	5/08/09	7:32:50
	INSTGDXD	EXEC	D2	V	72	260	4	5/08/09	7:32:50
	IFCONFIG	EXEC	D1	V	72	4349	37	5/08/09	7:32:49
	DISK\$LST	EXEC	D2	V	71	23	1	5/08/09	7:32:48
	GENDELOD	EXEC	D2	V	65	42	1	5/08/09	7:32:48
	FTPPER	EXEC	D5	V	72	133	2	5/08/09	7:32:47
	GDDMXD	EXEC	D2	V	72	45	1	5/08/09	7:32:47
	FILE\$LST	EXEC	D2	V	71	26	1	5/08/09	7:32:46
	DTCIPWIZ	EXEC	D1	V	72	1364	10	5/08/09	7:32:45
	DIG	EXEC	D2	V	72	52	1	5/08/09	7:32:44
1= Help 2= Refresh 3= Quit 4= Sort(type) 5= Sort(date) 6= Sort(size)									
7= Backward 8= Forward 9= FL /n 10= 11= XEDIT/LIST 12= Cursor									
====>									
X E D I T 1 File									
003/001									

==> file * exec *

When you enter the command, FILELIST * exec * you get a filelist screen of all files with the file type 'EXEC':

Filelist Commands continued

CMD column

- Delete files:
 - Enter 'ERASE' on the cmd line next to the file you wish to erase
- Copy files:
 - Type: 'copy / <new_filename> <type> <mode>'
This is a useful tool
- Rename files:
 - Type: 'rename / <new_file_info>'.
- Important Keys:
 - PF3 – Exits from most interactive commands
 - PF7 – scrolls the Page Up
 - PF8 – scrolls the Page Down

Displaying/editing the Contents of a File

X
<xedit>

```

x3270
File Options Macros
DSWT FILELIST A0 V 169
Cmd Filename Filetype Fm Forr
x BSPTXT TEXT A1 F
DSWT NETLOG A0 V
LASTING GLOBALV A1 V
SYN SYNONYM A1 F
PROFILE EXEC A1 V
PROFILE XEDIT A1 V
    
```

```

x3270-4 localhost
File Options M
BSPTXT TEXT
==> qq
|...+...1...
00000 * * * Top of F
00001 Introduction t
00002
00003 This textbook
00004 and skills nec
00005 features of z
    
```

qq

```

x3270
File Options Macros
DSWT FILELIST A0 V 169
Cmd Filename Filetype Fm Forr
browse BSPTXT TEXT A1 F
DSWT NETLOG A0 V
LASTING GLOBALV A1 V
YM A1 F
A1 V
A1 V
    
```

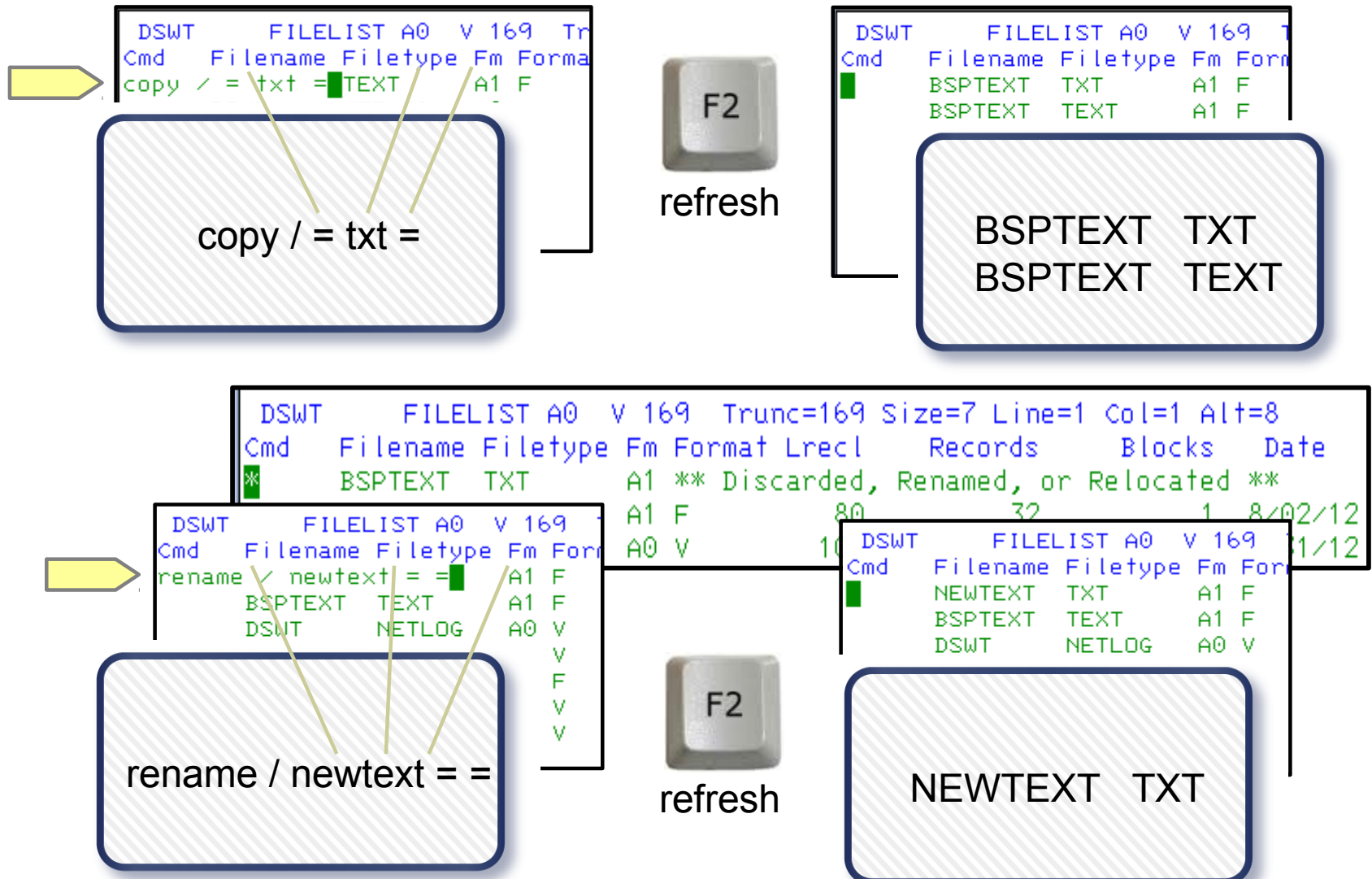
browse

```

File Options Mac
BSPTXT TEXT A1
==> q
Introduction to the N
This textbook provide
and skills necessary
features of z/VM Vers
series of textbooks d
mainframe concepts an
large systems computi
assumed to be literate in personal c
computer science or information syst
who will benefit from this textbook
    
```

q

Copying/renaming a File From FILELIST



Deleting a File From FILELIST

File	Options	Macros
DSWT FILELIST A0 V 169 Trunc=169 Size=7 Line=1 Col=1 Alt=42		
Cmd	Filename	Filetype Fm Format Lrecl Records Blocks Date
*	BSPTXT	TXT A1 ** Discarded, Renamed, or Relocated **
	BSPTXT	TEXT A1 F 80 32 1 8/02/12
	DSWT	NETLOG A0 V 103 2 1 7/31/12



File	Options	Macros
DSWT FILELIST A0 V 169 Tru		
Cmd	Filename	Filetype Fm Format
erase	BSPTXT	TXT A1 F
	BSPTXT	TEXT A1 F

erase

or:

discard



File	Options	Macros
DSWT FILELIST A0 V 169 T		
Cmd	Filename	Filetype Fm Form
	BSPTXT	TEXT A1 F
	DSWT	NETLOG A0 V
	LASTING	GLOBALV A1 V
	SYN	SYNONYM A1 F
	PROFILE	EXEC A1 V
	PROFILE	XEDIT A1 V

Create a file using XEDIT

==> xedit myfirst text a

==> input

* * * Top of File * * *

|...+....1....+....2....+....3....+....4....+....5....+....6....+....7..

My first written File
using xedit...cool



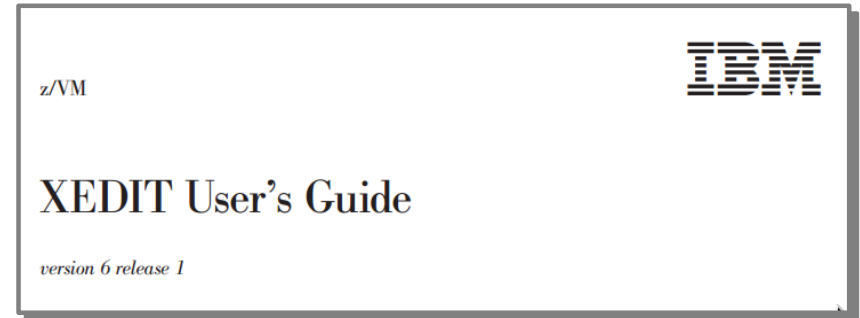
/* Use the **Tab** key
to go to the next
line..*/



/* Hit the **Return** key
twice to leave the
input mode */

==> file

/* Save the file and
leave xedit */



<http://publibz.boulder.ibm.com/epubs/pdf/hcsd9c00.pdf>

Basic xedit Commands

- Open file:
xedit <filename> <type>
- Start editing:
====> input
(2xEnter: leave input mode)
- Save file:
====> file
- Quit xedit:
====> quit
- Quit xedit without save:
====> qquit
- Delete single line:
==d== <Enter>
- Delete block of lines:
==dd= ...
==dd= <Enter>
- Navigate to first line:
====> top
- Navigate to last line:
====> bottom
- Search & replace words:
====> change/old/new
PF5,PF6

Understanding how to use help files

HELP TASKS Task Help Information line 1 of 40
(c) Copyright IBM Corporation 1990, 2009

z/VM HELP, main panel

The help panels listed below provide information about various z/VM functions, topics, and tasks.
To view a help panel, move the cursor to any character of the name or description and press the ENTER key or the PF1 key.

HELP - Using the z/VM HELP Facility
MENUS - z/VM help menus
TASKS - Basic z/VM tasks
AVS - AVS commands
CMS - CMS commands

PERFKIT - Performance Toolkit topics
PIPE - CMS Pipelines stages and subcommands
PIPE - CMS Pipelines tasks
QUERYSET - QUERY and SET commands and subcommands
ROUTINES - CMS callable services (menu)
ROUTINES - CMS routines (types)
RSCS - RSCS Networking commands and link parameters
STATEMTS - REXX, EXEC 2, and EXEC statements
SUBCMDS - Subcommand groups, such as XEDIT
TCPIP - TCP/IP commands

PF1= Help 2= Top 3= Quit 4= Return 5= Clocate 6= ?
PF7= Backward 8= Forward 9= PFkeys 10= 11= 12= Cursor

====>

Macro-read 1 File



Understanding how to use help files

CMS MENU Menu Help
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Help for CMS commands

To view a help panel, move the cursor and press the ENTER key or the PF1
An asterisk (*) preceding the name
A colon (:) preceding the name indi

*BORDER	COMpare	ESTATE	Help
*CMSQUERY	CONWAIT	ESTATEW	HELPC
*CMSSET	COPYfile	ETRACE	HI
*CMSUTIL	CP	EXec	HO
*EDIT	CREate	EXECDrop	HT
*FILESERV	CSLGEN	EXECIO	HX
*OPENVM	CSLList	EXECload	IDent
*OSHELL	CSLMap	EXECMap	IMMCM
*PIPE	CSRBICV	EXECOS	Include
*PSCREEN	CSRCMPEV	EXECStat	Labeldef
*RSKCMDS	DCSSRSav	EXECUPDT	LANGGEN
*SFSADMIN	DEBUG	EXECUTE	LANGMERG
*SFSQUERY	DEFAULTS	FETCh	LISTDIR
*VSCREEN	DELeTe	FILEATTR	LISTDS
*WINDOW	DEPRINT	Filedef	Listfile
*XEDIT	DESBUF	FILEList	LISTIO
:HELP	DEVTYPE	FILESTCK	LKED
ACcess	DIRAttr	FINDSTAK	LOAD

HELP TASKS Task Help Information
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z/VM HELP, main panel

The help panels listed below provide information a
z/VM functions, topics, and tasks.

To view a help panel, move the cursor to any chara
or description and press the ENTER key or the PF1

HELP	- Using the z/VM HELP Facility
MENUS	- z/VM help menus
TASKS	- Basic z/VM tasks
AVS	- AVS commands
CMS	- CMS commands
CP	- CP commands
DIRMAINT	- DirMaint commands
DIRMAINT	- DirMaint topics
DUMPS	- Dump commands, subcommands, and utiliti
DYNIO	- Dynamic I/O tasks
GLOSSARY	- Definitions of terms

Conclusion

This short presentation gave an overview

- on how to log on and off
- execute CP and CMS commands
- the CMS FILELIST command
- CMS XEDIT
- and how to reach the help files

It's easy to get used to it with a little practice.