

# The MVS 3.8j Tur(n)key 4- System -- Version 1.00 -- Update 01

## Installation

1. It is strongly recommended to create a backup copy of the system. Although the update process has been thoroughly tested a backup copy comes in handy if an unforeseen error occurs.
2. Unzip archive tk4-\_v1.00\_update\_01.zip into the tk4- folder. Allow your unzip utility to overwrite existing files and to merge into existing folders while unzipping the archive.

**Note:** This update changes the mvs, mvs.bat, start\_herc and start\_herc.bat scripts in the tk4- folder and the Hercules master configuration file tk4-.cnf in the tk4-/conf folder. If local changes have been applied to these files, please review the updated files carefully and merge the local changes back in if they are still necessary. However, when re-applying changes, it should be taken into consideration that the maintenance concept of TK4- provides dedicated locations for local modifications, allowing for almost every desirable customization to be done without needing to update any of these files.

3. a) Windows: Open folder tk4\update and click (or double click, depending on settings) apply\_update.bat.  
b) Linux: Open a shell, change directory to the tk4- /update folder and run ./apply\_update.
4. You'll be prompted for the credentials of an administrative user (i.e. HERC01/CUL8TR), then the system will be IPLed, an update job will be executed and finally the system will be shut down.
5. Check listing.txt in the update folder for errors. One of the following outcomes is expected:

```
17.15.41 JOB      1  IEF403I UPDATER - STARTED - TIME=17.15.41
17.15.41 JOB      1  IEFACRT - Stepname Procstep Program Retcode
17.15.41 JOB      1  UPDATER UMODEDT1 IEBGENER RC= 0000
17.15.41 JOB      1  UPDATER UMODEDT2 IKJEFT01 RC= 0000
17.15.41 JOB      1  UPDATER UMODEDT3 MAWK RC= 0000
17.15.42 JOB      1  UPDATER UMODEDT4 IKJEFT01 RC= 0000
17.15.42 JOB      1  *IEC501A M 480,UPDATE,SL,6250 BPI,UPDATER,CREDITS
17.15.42 JOB      1  UPDATER CREDITS IEBGENER RC= 0000
17.15.42 JOB      1  UPDATER DISTRO IEBGENER RC= 0000
17.15.43 JOB      1  UPDATER ELEMENTS IEBCOPY RC= 0000
17.15.43 JOB      1  UPDATER ASM ASM IFOX00 RC= 0000
17.15.44 JOB      1  UPDATER CSLB0001 HMASMP HMASMP RC= 0004
17.15.44 JOB      1  UPDATER RESTORE HMASMP HMASMP *FLUSH*
17.15.50 JOB      1  UPDATER RECAPP HMASMP HMASMP RC= 0000
17.16.52 JOB      1  UPDATER COMPRESS IEBCOPY RC= 0000
17.16.52 JOB      1  IEF234E K 480,UPDATE,PVT,UPDATER
```

-- Or --

```
17.27.20 JOB      2  IEF403I UPDATER - STARTED - TIME=17.27.20
17.27.20 JOB      2  IEFACRT - Stepname Procstep Program Retcode
17.27.20 JOB      2  UPDATER UMODEDT1 IEBGENER RC= 0000
17.27.21 JOB      2  UPDATER UMODEDT2 IKJEFT01 RC= 0000
17.27.21 JOB      2  UPDATER UMODEDT3 MAWK RC= 0000
17.27.21 JOB      2  UPDATER UMODEDT4 IKJEFT01 RC= 0000
17.27.21 JOB      2  *IEC501A M 480,UPDATE,SL,6250 BPI,UPDATER,CREDITS
17.27.21 JOB      2  UPDATER CREDITS IEBGENER RC= 0000
17.27.22 JOB      2  UPDATER DISTRO IEBGENER RC= 0000
17.27.22 JOB      2  UPDATER ELEMENTS IEBCOPY RC= 0000
17.27.23 JOB      2  UPDATER ASM ASM IFOX00 RC= 0000
17.27.23 JOB      2  UPDATER CSLB0001 HMASMP HMASMP RC= 0000
17.27.38 JOB      2  UPDATER RESTORE HMASMP HMASMP RC= 0000
17.27.44 JOB      2  UPDATER RECAPP HMASMP HMASMP RC= 0000
17.28.47 JOB      2  UPDATER COMPRESS IEBCOPY RC= 0000
17.28.47 JOB      2  IEF234E K 480,UPDATE,PVT,UPDATER
17.28.47 JOB      2  IEF404I UPDATER - ENDED - TIME=17.28.47
```

6. IPL the system and verify that your regularly used functionality still works as expected. If it does not, revert to your backup copy and report the problems to the author.

7. Folder tk4-/update is not needed to operate the system, once the update has been installed successfully. It is recommended to remove it to avoid interference with future updates.

## Fixes

- Allow linemode prompts from TSO command processors or clists called from the TSOAPPLS menu. An example for this is the IKJ56253A ENTER JOBNAME CHARACTER+ - prompt upon submission of a job having the TSO userid coded in the jobname field of the jobcard. Thanks to Tom Hall for reporting this issue.
- Update to TK4- .CREDITS: Attribute usermod ZP60032 to Greg Price. Thanks to Scott Cosel for reporting this issue.

## New Function

### Foreground Initiated Background (FIB) Enhancement

TSO users with OPERATOR authority are now allowed to manipulate all spooled output and to cancel all jobs in the system using the foreground initiated background (FIB) OUTPUT and CANCEL TSO command processors. This greatly enhances the capabilities of RFE menu 0, which makes use these commands. This enhancement is implemented through the TSO FIB user exit IKJEFF53.

Thanks to Shelby Beach for making usermod SLB0001 and a modified version of the IKJEFF53 CB-IPO TSO FIB user exit available, and thanks to Greg Price (of Ferntree, as the comment header points out ☺) for the modification. See SYS1.UMODSRC (IKJEFF53) and SYS1.UMODCNTL (SLB0001) for details.

### Extended Hercules Master Configuration File (tk4-.cnf) Parameterization

The number and maximum number of CPs configured in the emulated system and all IP addresses and port numbers defined in the master configuration file tk4-/conf/tk4- .cnf have been parameterized using Hercules' environment variable substitution feature. This allows customization of these parameters without needing to modify the master configuration file.

To use a different value for any of these parameters simply set (Windows) or set and export (Linux) the designated environment variable to the desired value before starting Hercules.

Alternatively you can place set (Windows) or set and export (Linux) commands in file tk4-/local\_conf/tk4- .parm. If this file exists, the startup scripts (mvs, mvs.bat, start\_herc, start\_herc.bat) will call (Windows) or source (Linux) it to set the environment variables.

**Example:** To change the IP address used in the CTCA definitions at CUUs 610 and 611 (aka "the MVSDDT client address") from 127.0.0.1 to 192.168.188.1 you would

- a) On Windows put the following in tk4-\local\_conf\tk4- .parm:

```
@ECHO OFF
set DDTCLTIP=192.168.188.1
```

The first line is optional; its only purpose is to make output less chatty.

-- or --

- b) On Linux put the following in tk4-\local\_conf\tk4- .parm:

```
export DDTCLTIP=192.168.188.1
```

The following environment variables have been introduced:

Variable	Default	Description
NUMCPU	1	Number of central processors configured
MAXCPU	1	Maximum number of central processors that can be configured
CNSLPORT	3270	Telnet server port for local 3270 and 3215 consoles and terminals
HTTPPORT	8038	Hercules HTTP server port
RDRPORT	3505	Card reader port
DDTSRVCP	17610	Local port for CTCA at CUU 610 (MVSDDT server command port)
DDTSRVDP	17611	Local port for CTCA at CUU 611 (MVSDDT server data port)
DDTCLTCP	18610	Remote port for CTCA at CUU 610 (MVSDDT client command port)
DDTCLTDP	18611	Remote port for CTCA at CUU 611 (MVSDDT client data port)
DDTCLTIP	127.0.0.1	Remote host for CTCAs at CUU 610 and 611 (MVSDDT client IP address)
N660PORT	37051	Telnet server port for 3705 at CUU 660 (NCP/VTAM) for SNA 3270 or 3767
N661PORT	37052	Telnet server port for 3705 at CUU 661 (NCP/VTAM) for SNA 3270 or 3767
N662PORT	37053	Telnet server port for 3705 at CUU 662 (NCP/VTAM) for SNA 3270 or 3767
N663PORT	37054	Telnet server port for 3705 at CUU 663 (NCP/VTAM) for SNA 3270 or 3767
N664PORT	37055	Telnet server port for 3705 at CUU 664 (NCP/TCAM) for SNA 3270
N665PORT	37056	Telnet server port for 3705 at CUU 665 (NCP/TCAM) for SNA 3270
N666PORT	37057	Telnet server port for 3705 at CUU 666 (NCP/TCAM) for SNA 3767
N667PORT	37058	Telnet server port for 3705 at CUU 667 (NCP/TCAM) for SNA 3767
N668PORT	37911	Telnet server port for 3791L at CUU 668 (VTAM) for SNA 3270
N669PORT	37912	Telnet server port for 3791L at CUU 669 (VTAM) for SNA 3270
N66APORT	37913	Telnet server port for 3791L at CUU 66A (VTAM) for SNA 3767
N66BPORT	37914	Telnet server port for 3791L at CUU 66B (VTAM) for SNA 3767
R670PORT	37801	Switched 2703 BSC line port for RJE (CUU 670, JES2 LINE1)
R671PORT	37802	Switched 2703 BSC line port for RJE (CUU 671, JES2 LINE2)
R672PORT	37803	Switched 2703 BSC line port for RJE (CUU 672, JES2 LINE3)
R673PORT	37804	Switched 2703 BSC line port for RJE (CUU 673, JES2 LINE4)
T680PORT	33351	Dialin 2703 async line port for 3335 (CUU 680, TCAM)
T681PORT	33352	Dialin 2703 async line port for 3335 (CUU 681, TCAM)
T682PORT	33353	Dialin 2703 async line port for 3335 (CUU 682, TCAM)
T683PORT	33354	Dialin 2703 async line port for 3335 (CUU 683, TCAM)
T688PORT	27411	Dialin 2703 async line port for 2741 (CUU 688, TCAM)
T689PORT	27412	Dialin 2703 async line port for 2741 (CUU 689, TCAM)
T68APORT	27413	Dialin 2703 async line port for 2741 (CUU 68A, TCAM)
T68BPORT	27414	Dialin 2703 async line port for 2741 (CUU 68B, TCAM)
T68CPORT	27415	Dialin 2703 async line port for 2741 (CUU 68C, TCAM)
T68DPORT	27416	Dialin 2703 async line port for 2741 (CUU 68D, TCAM)
T68EPORT	27417	Dialin 2703 async line port for 2741 (CUU 68E, TCAM)
T68FPORT	27418	Dialin 2703 async line port for 2741 (CUU 68F, TCAM)

The default values in the above table are identical to the hardcoded master configuration file settings in effect before installation of TK4- Update 01, so the system configuration will remain unchanged unless any of these environment variables are set explicitly.