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```

## TAPE64 sample driver README

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## CONTENTS

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This file includes the following information:

- 1.0 PREREQUISITES
- 2.0 INSTALLATION
- 3.0 CUSTOMIZATION
- 4.0 RUNNING THE DRIVER
- 5.0 NOTICES
- 5.1 Trademarks

### 1.0 PREREQUISITES

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The release levels are the following:  
 maketpf/bldtpf tool for z/TPF 1.1

### 2.0 INSTALLATION

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- 1) FTP the tar file (tape64.tar.gz) to your linux system. This can be placed in any directory as a holding location, for example: /tmp/ztpftar
- 2) Create a root directory that will hold the unpacked files, for example: /ztpfdrvs
- 3) Extract the source code from the tar file by entering the following commands:  

```
cd /ztpfdrvs
tar -xvzf /tmp/ztpftar/tape64.tar.gz
```

The driver source files will be extracted in the following directory structure:

```
tape64/qtp1.c
tape64/qtp1a.c
tape64/qtp2.c
tape64/tape64.cntl
tape64/qtp3.c
tape64/qtp4.c
tape64/qtp5.c
tape64/qtp6.c
tape64/qtp7.c
tape64/qtp8.c
tape64/qtp9.c
tape64/qtpa.c
tape64/qxtg.asm
tape64/qxth.asm
tape64/qxti.asm
tape64/qxtj.asm
tape64/qxtk.asm
tape64/qtp2.mak
tape64/qtp1.mak
tape64/qtp3.mak
tape64/qtp5.mak
tape64/qtp6.mak
tape64/qtp7.mak
tape64/qtp8.mak
tape64/qtp9.mak
tape64/qtp4.mak
tape64/qtpa.mak
tape64/app_drvs.mak
```

```
macro/ta0eq.mac
macro/sd0rv.mac
include/c_sd0rv.h
include/c_ta0eq64.h
```

```
tpftools/include_ztpf_user/maketpf.env_drvs_system
```

4) Create a maketpf.cfg file with the following contents:

```
APPL_ROOT := /ztpfdrvs
TPF_ROOT := /ztpf
TPF_BSS_NAME := BSS
#TPF_SS_NAME := WP
#USER_VERSION_CODE :=
```

- a) Set APPL\_ROOT to the directory containing the driver source code extracted.
- b) Set TPF\_ROOT to the directory containing the z/TPF source code.
- c) Set TPF\_BSS\_NAME to the basic subsystem name of your TPF system. By default, this is set to BSS.
- d) Optionally, set the TPF\_SS\_NAME to the subsystem name.
- e) Optionally, set USER\_VERSION\_CODE to any desired two-character string for user version code for the shared objects built. By default, this is set to null.

Refer to the maketpf tool documentation for details on these variables.

5) Copy the "tpftools" directory that was part of the extracted files, in to your TPF\_ROOT directory (/ztpf/tpftools). The maketpf.env\_drvs\_system is required to build some of the driver programs.

6) The supported NOOBJ maketpf\_envs have to be updated to include "drvs\_system" maketpf\_env. To do this, create the file maketpf.user\_rules\_setup1 (if it does not already exist) in your tpftools/include\_ztpf\_user directory with the following lines in it:

```
# Define any application non-object shippable environment file names
APPL_NOOBJ_ENVS += drvs_system
```

7) Build the USRSTUB program after adding the TAPE64 driver control file to your user control file.

a) Add the following line to your user control file base/cntl/usr.cntl

```
include tape64/tape64.cntl
```

b) Build the USRSTUB program to generate stubs for the driver programs using the following command:

```
maketpf USRSTUB -f
```

8) Run the maketpf tool with the accompanied control file (tape64.cntl) to assemble, compile, and link the driver programs:

```
bldtpf /ztpfdrvs/tape64/tape64.cntl
```

9) Use the standard load procedure to transfer and load the following driver programs to the TPF system:

```
QTP1.so  QTP2.so  QTP3.so  QTP4.so  QTP5.so  QTP6.so  QTP7.so  QTP8.so
QTP9.so  QTPA.so  QXTG.so  QXTH.so  QXTI.so  QXTJ.so  QXTK.so
```

See Program Management for more information about building and loading programs to the TPF system.

### 3.0 CUSTOMIZATION

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Update base/rt/cvzz.asm (or the tool that executes driver programs) to make an entry for this driver. The shared object QXTG is the main entry point for this driver.

Build and load the updated CVZZ program to the TPF system.

### 4.0 RUNNING THE DRIVER

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Please read the user's guide, available in Portable Document Format (PDF), provided along with this driver for more information about running the driver.

You can also issue ZTEST TA64 HELP for the online help display.

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