

z/TPF HOTX Driver

(HOTR/HOTS/HS64)

User's Guide

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STOp

stops the driver on the ordinal number specified.

STAT

queries the status of the ordinal number specified.

Fileadd

uses the address specified as the address of the 'hot record'.

Note: The FILEADDR parameter overrides the FACID parameter.

FAcid

uses the FACE ID specified as the FACE ID of the 'hot record'.

Ordinal

specifies number in Hex 0x00-0x13. If not specified, the default is 0.

All

runs the action with all 20 ordinals 0x00-0x13.

Note: The ALL parameter overrides the ORDINAL parameter.

Help

displays the correct syntax of the command.

Examples

The following example will start HOTR with all ordinals on I-stream two:

```
ZTEST 2 HOTR START ALL
```

The following example will start HOTR with ordinal 0 on I-stream one:

```
ZTEST HOTR START
```

The following example will query the status of HOTR with ordinal 0 on I-stream one:

```
ZTEST HOTR STAT
```

The following example will query the status of HOTR with all ordinals on I-stream three:

```
ZTEST HOTR STAT ALL
```

The following example will stop HOTR with ordinal 0 on I-stream one:

```
ZTEST HOTR STOP
```

The following example will stop HOTR with all ordinals on I-stream four:

```
ZTEST 4 HOTR STOP ALL
```


All

indicates to use all record ordinal numbers defined (i.e. 0x00-0x13). This parameter cannot be specified with the FILEADDR parameter.

FCt

specifies functional test mode.

NOFCt

specifies system test mode.

Help

displays the correct syntax of the command.

Examples

The following example will set the flag to run the snippets with ordinal 0 on I-stream two:

```
ZTEST 2 HOTS SET SNIPPETS
```

The following example will set the flags for not running the snippets with all ordinals on I-stream three:

```
ZTEST 3 HOTS SET NORMAL ALL
```

The following example will set the flag for running one snippet with ordinal 0 on I-stream four:

```
ZTEST 4 HOTS SET NOSNIPPETS
```

The following example will set state 2 for ordinal 2 on I-stream one using 64 bit HOTS driver:

```
ZTEST HS64 SET STATE-2 0-2
```

The following example will set Service 8 running the Functional Test mode:

```
ZTEST HOTS SET SERVICE-8 FCT
```

Source code information

The HOTX driver suite consists of the following program segments:

Header Files

None.

Macros

Macro	Description
hotreq.mac	This macro will be invoked at the start of both segments QHT0 and QHT1, and will then set up all the equates and constants that these segments will use.

BSOs

Module	Makefile	Segment	Description
QHT0	app_drvs.mak	qht0.asm	HOTR driver segment
QHT1	app_drvs.mak	qht1.asm	HOTR driver segment
QHT2	app_drvs.mak	qht2.asm	HOTS driver segment
QHT3	app_drvs.mak	qht3.asm	Called by QHT1 when HOTS is running HOTS driver segment
QHT6	app_drvs.mak	qht6.asm	HS64 driver segment

CSOs

None.

Additional information**Macro Usage (HOTR):**

Macro	Usage
BPKDC	Standardized parameter parser. Also uses BPPSC.
CINFC	Get the protection key.
CRUSA	Test if data level(s) hold(s) a block and release if so.
DEFRC	Defer processing of current entry.
FSYSC	Find the address of the system heap.
EXITC	Exit segment and release any storage.
FIWHC	Find the record specified with hold and wait for IO completion.
FINWC	Find the record specified and wait for IO completion.
FILNC	File record but do not release the lock is specified.
GSYSC	Get the system heap.
KEYRC	Restore the protection key.
LODIC	Check if enough system resources are available to begin processing work.
SERRC	Issue a system error.
UATBC	Get the name of the subsystem.
UNFRC	Release the lock on the specified record address.
WAITC	Wait for completion of all pending IO's for that ECB.
WTOPC	Issue a specified message to the operator.

STATE information (HOTS):

- STATE 1: VFA-X lock pending, BCA queue
 - GETCC D6
 - GETCC D7
 - FILEC D6
 - FILEC D7
- STATE 2: VFA-X lock pending, no BCA queue
- STATE 3: VFA buffer, no vfa locks
- STATE 4: VFA buffer, no VFA locks, delay file pending
 - GETCC D7
 - FILEC D7
- STATE 5: VFA buffer, VFA-X lock, delay file pending

GETCC D7
FILNC D7
WAITC

- STATE 6: No VFA buffer
- STATE 7: VFA-S lock pending, BCA queue, use D4/D5

CRUSA
FINDC
FINDC

- STATE 8: VFA-S lock pending, no BCA queue, use D5

CRUSA
FINDC

- STATE 9: VFA buffer, VFA-s lock

CRUSA
FINDC
WAITC

- STATE 10: VFA buffer, VFA-s lock, RHT in BCA

FINHC
WAITC
UNFRC

- STATE 11: VFA buffer, VFA-X lock, RHT in BCA

- STATE 12: VFA buffer, VFA-X lock, delay file pending

FINHC
WAITC
FILNC
WAITC
UNFRC

- STATE 13: VFA buffer, VFA-X lock, delay file pending

FINHC
WAITC
FILUC

- STATE 14: VFA buffer, VFA-X lock, delay file pending

FINHC
WAITC
FILUC
CRUSA

SERVICE information (HOTS):

SERVICE 1: FILEC VS=YES, RID=xx
SERVICE 2: FILNC VS=YES, RID=xx
SERVICE 3: FILEC VS=NO, RID=xx
SERVICE 4: FILNC VS=NO, RID=xx
SERVICE 5: FILSC VS=NO, RID=xx

SERVICE 6: FILSC VS=YES, RID=xx
 SERVICE 7: FILUC VS=YES, RID=xx
 SERVICE 8: FILUC VS=NO RID=xx
 SERVICE 9: UNFRC VS=NO RID=xx
 SERVICE 10: UNFRC VS=YES RID=xx
 SERVICE 11: FINHC VS=YES RID=0
 SERVICE 12: FINHC VS=YES RID=correct
 SERVICE 13: FINHC VS=YES, RID=incorrect
 SERVICE 14: FINHC VS=YES RID=incorrect vs=no
 SERVICE 15: FINHC VS=NO, RID=0
 SERVICE 16: FINHC VS=NO, RID=correct
 SERVICE 17: FINHC VS=NO RID=inc VS=yes
 SERVICE 18: FINHC VS=NO, RID=inc VS=no
 SERVICE 19: FINDS VS=YES, RID=0
 SERVICE 20: FINDC VS=YES RID=correct
 SERVICE 21: FINDC VS=YES RID=inc vs=yes
 SERVICE 22: FINDC VS=YES RID=inc vs=no
 SERVICE 23: FLFAC VS=YES, RID=xx
 SERVICE 24: FINSC VS=Yes RID=0
 SERVICE 25: FINSC VS=YES RID=correct
 SERVICE 26: FINSC VS=YES RID=inc vs=yes
 SERVICE 27: FINSC VS=YES, RID=inc vs=no
 SERVICE 28: FINDC VS=NO, RID=0
 SERVICE 29: FINDC VS=NO RID=correct
 SERVICE 30: FINDC VS=NO, RID=inc vs=yes
 SERVICE 31: FINDC VS=NO, RID=inc vs=no
 SERVICE 32: FLFAC VS=NO, RID=xx
 SERVICE 33: FINSC VS=NO RID=0
 SERVICE 34: FINSC VS=NO, RID=correct
 SERVICE 35: FINSC VS=NO, RID=inc vs=yes
 SERVICE 36: FINSC VS=NO, RID=inc vs=no

Messages

Normal Cases (HOTR):

ZTEST HOTR HELP

HOTR0001I Valid HOTR parameters are:
 START FACID-cc ORDINAL-xx FILEADD-hh <ALL.
 STAT FACID-cc ORDINAL-xx FILEADD-hh
 STOP FACID-cc ORDINAL-xx FILEADD-hh
 HELP
 NOTE: ALL overrides the ORDINAL parm
 FILEADDR overrides the FACID parm

ZTEST 2 HOTR START ALL

HOTR0003I Driver started for FACEID #HOTREC all ordinals+

ZTEST HOTR START

HOTR0009I Driver started for FACE ID: #HOTREC ordinal: 00000000+

ZTEST 2 HOTR START

HOTR0009I Driver started for FACE ID: #HOTREC ordinal: 00000000+

ZTEST HOTR START O-4

HOTR0009I Driver started for FACE ID: #HOTREC ordinal: 00000004+

ZTEST HOTR STAT O-4

HOTR0030I STATUS was requested for FACE ID #HOTREC Ordinal 00000004+
CSMP0097I 16.31.17 CPU-B SS-BSS SSU-HPN IS-01
HOTR0016I Driver running on FACE ID #HOTREC Ordinal 00000004
The file-count is: 0000DDA8
Snippets are not active at this time
This record is not running EHT
This record is running SVT Mode+

ZTEST HOTR STOP O-4

HOTR0031I STOP flag was set for FACE ID #HOTREC Ordinal 00000004+
CSMP0097I 16.33.21 CPU-B SS-BSS SSU-HPN IS-01
HOTR0017I Driver has stopped for FACE ID #HOTREC Ordinal 00000004
The final file-count is: 000547AA
Snippets are not active at this time
This record is not running EHT
This record is running SVT Mode+

ZTEST HOTR STAT O-4

HOTR0033I Driver not running on #HOTREC Ordinal 00000004
The previous file-count was: 000547AA+

Error Cases (HOTR):

ZTEST HOTR STOP O-4

HOTR0012E Driver not running on #HOTREC ordinal 00000004 - request rejected+

ZTEST HOTR START

HOTR0007E The record FACE ID: #HOTREC ordinal: 00000000 indicates the driver is already running - issue a STOP and then try a START later+

ZTEST HOTR START O-14

HOTR0002E Ordinal number too high- must be 0x0-0x13+

ZTEST HOTR START FILEADD-00000000CC03A802 O-1

BPKD0061E 07.33.16 ZHOTR, TOO MANY CHARACTERS IN FILEADD PARAMETER+

Normal Cases: (HOTS/HS64)

ZTEST HOTS HELP

CSMP0099I 09.28.09 010000-B ZTEST HOTS HELP+

CSMP0097I 09.28.09 CPU-B SS-BSS SSU-HPN IS-01

HOTS0001I Valid HOTS parameters are:

SET FACID-cc ORDINAL-xx FILEADDR-hh <ALL. <FCT.

<NORMAL. <SNIPPETS. SState-xx SService-xx

HELP

ALL overrides ORDINAL, FILEADDR overrides FACID

NORMAL overrides SNIPPETS, SNIPPETS overrides STATE/SERVICE+

The following messages are chronologically related.

ZTEST HOTR START

HOTR0009I Driver started for FACE ID: #HOTREC ordinal: 00000000+

ZTEST HOTR STAT

HOTR0030I STATUS was requested for FACE ID #HOTREC Ordinal 00000000+

CSMP0097I 16.54.27 CPU-B SS-BSS SSU-HPN IS-01

HOTR0016I Driver running on FACE ID #HOTREC Ordinal 00000000

The file-count is: 00002F77

Snippets are not active at this time

This record is not running EHT

This record is running SVT Mode+

ZTEST HOTS SET SNIPPETS

HOTS0009I Driver for FACE ID: #HOTREC all ordinals was told to:

RUN ALL SNIPPETS +

ZTEST HOTR STAT

HOTR0030I STATUS was requested for FACE ID #HOTREC Ordinal 00000000+

CSMP0097I 16.52.47 CPU-B SS-BSS SSU-HPN IS-01

HOTR0016I Driver running on FACE ID #HOTREC Ordinal 00000000

The file-count is: 00007913
Snippets active - last was STATE: 0004 SERVICE: 0001
This record is not running EHT
This record is running SVT Mode+

ZTEST HOTR STAT

HOTR0030I STATUS was requested for FACE ID #HOTREC Ordinal 00000000+
CSMP0097I 16.53.01 CPU-B SS-BSS SSU-HPN IS-01
HOTR0016I Driver running on FACE ID #HOTREC Ordinal 00000000
The file-count is: 00007E20
Snippets active - last was STATE: 000B SERVICE: 0022
This record is not running EHT
This record is running SVT Mode+

ZTEST HOTR STOP

HOTR0031I STOP flag was set for FACE ID #HOTREC Ordinal 00000000+
CSMP0097I 16.55.58 CPU-B SS-BSS SSU-HPN IS-01
HOTR0017I Driver has stopped for FACE ID #HOTREC Ordinal 00000000
The final file-count is: 0002F6FE
Snippets are not active at this time
This record is not running EHT
This record is running SVT Mode+

ZTEST HOTS SET NORMAL

HOTS0009I Driver for FACE ID: #HOTREC all ordinals was told to:
RUN NO SNIPPETS +

ZTEST HOTS SET NOSNIPPET

HOTS0009I Driver for FACE ID: #HOTREC all ordinals was told to:
RUN ONE SNIPPET +

Error Cases (HOTS/HS64):

ZTEST HOTS SET SNIPPETS ORDINAL-2

HOTS0010E Driver not running on #HOTREC ordinal 00000002 - request rejected+

References

For more information about reading syntax diagrams, also referred to as railroad diagrams, see *Accessibility information* in the TPF Product Information Center.

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