

Sneakpeek Debug Back-End

MANUAL

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[TRACE32 Online Help](#)

[TRACE32 Directory](#)

[TRACE32 Index](#)

TRACE32 Documents	
Debug Back-Ends	
Sneakpeek Debug Back-End	1
History	3
Introduction	4
Related Documents	4
Contacting Support	4
PowerView System Configurations	6
Configuring Sneakpeek	7
Command Reference	8
SYStem.SNEAKPEEK	Configure SNEAKPEEK debug port
SYStem.SNEAKPEEK.CONNECT	Connect to emulation or simulation
SYStem.SNEAKPEEK.DISCONNECT	Disconnect from emulation/simulation
SYStem.SNEAKPEEK.EXPLore	Display plug-in capabilities
SYStem.SNEAKPEEK.MODELCOMMAND	Execute command in plug-in
SYStem.SNEAKPEEK.MODELCOMFIG	Configure emulation options
SYStem.SNEAKPEEK.MODELNAME	Select emulation

History

08-Aug-2023 Initial version of this manual.

Introduction

The sneakpeak interface acts as a virtual debugport which facilitates the communication between a real target and the PowerView over TCP/IP. It is responsible for the initiation, translation and safe ending of the TCP/IP connection.

Related Documents

- “[T32Start](#)” (app_t32start.pdf): The T32Start application assists you in setting up multicore / multiprocessor debug environments, and software-only debug environments. T32Start is only available for Windows.

For more information about software-only debug environments, please refer to:
“[Software-only Debugging \(Host MCI\)](#)” (app_t32start.pdf).

Contacting Support

Use the Lauterbach Support Center: <https://support.lauterbach.com>

- To contact your local TRACE32 support team directly.
- To register and submit a support ticket to the TRACE32 global center.
- To log in and manage your support tickets.
- To benefit from the TRACE32 knowledgebase (FAQs, technical articles, tutorial videos) and our tips & tricks around debugging.

Or send an email in the traditional way to support@lauterbach.com.

Be sure to include detailed system information about your TRACE32 configuration.

1. To generate a system information report, choose **TRACE32 > Help > Support > Systeminfo**.

Generate TRACE32 Support Information

Press the following button to get help on how to generate Support Information: 

Company:	Lauterbach	Department:	<input type="text"/>
Prefix:	<input type="text"/>	P.O. Box:	<input type="text"/>
Firstname:	Andrea	ZIP Code:	85635
Surname:	Martin		
Street:	Altlauferstr. 40		
City:	Hoehenkirchen-Siegrtsbr.		
Country:	Germany		
Telephone:	(+49) 8102-9876-555		
eMail:	andrea.martin@lauterbach.com		
Product:	PowerTrace PX		
Target CPU:	ARM940T		
Hostsystem:	Windows 10		
Compiler:	Arm		
RealtimeOS:	None	Safe Mode: <input type="checkbox"/>	

Generate Support Information:

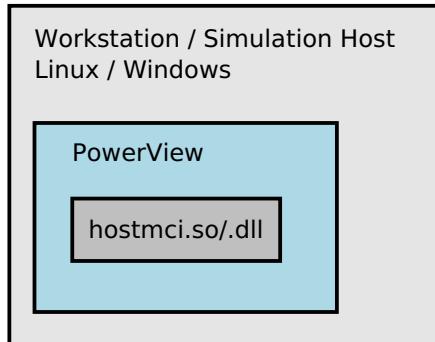
NOTE:

Please help to speed up processing of your support request. By filling out the system information form completely and with correct data, you minimize the number of additional questions and clarification request e-mails we need to resolve your problem.

2. Preferred: click **Save to File**, and send the system information as an attachment to your e-mail.
3. Click **Save to Clipboard**, and then paste the system information into your e-mail.

PowerView System Configurations

A single TRACE32 PowerView instance can be set up running on the same host as the back-end.



Modify the config.t32 file as follows:

```
PBI=MCILIB ; configure system to use hostmci.so
```

Linux example: To start TRACE32 PowerView with a specific config file, use e.g.:

```
bin/pc_linux/t32marm -c config.t32
```

For step-by-step instructions on how to configure the above setup in T32Start, see "["Debug Environment for Setup 1 \(Single Instance\)"](#)" in T32Start, page 31 (app_t32start.pdf).

Configuring Sneakpeek

A typical startup sequence is shown below. It is a PRACTICE script (*.cmm, ASCII format) executed with the **DO** command.

```
; select SNEAKPEEK as back-end
SYStem.CONFIG.DEBUGPORT SNEAKPEEK0

SYStem.SNEAKPEEK.DISCONNECT

SYStem.SNEAKPEEK.MODELNAME      "MODEL_SNEAKPEEK"
SYStem.SNEAKPEEK.MODELCONFIG "NODE=192.168.0.3;PORT=7606;"

SYStem.SNEAKPEEK.LOG.AddOPTION SMARTCALLDATA
SYStem.SNEAKPEEK.LOG.OPEN "sneakpeek.log" /UNBUFFERED
SYStem.SNEAKPEEK.LOG.RemoveOPTION TOAREA

SYStem.CONFIG.AXINAME "AXI"
ON.ERROR CONTinue

; continue with CPU configuration
SYStem.CPU *
SYStem.CONFIG COREDEBUG BASE AXI:0xFF14010000
SYStem.CONFIG CTI          BASE AXI:0xFF14020000

SYStem.SNEAKPEEK.CONNECT
SYStem.POLLING DEFault OFF
MAP.UPDATEONCE 0x0--0xFFFFFFFFFFFFFF
SYStem.SNEAKPEEK.LOG.CLOSE

; connect to the emulation
SYStem.Up

ENDDO
```

SYStem.SNEAKPEEK

Configure SNEAKPEEK debug port

Using the **SYStem.SNEAKPEEK** command group, you can configure a SNEAKPEEK debug port. The command group is active after SNEAKPEEK has been selected as debug port. It allows to define and configure the used transactors and SNEAKPEEK 3rd-party library. The settings are shared among the TRACE32 instances connected to a certain MCI Server.

```
;optional step: open the SYStem.CONFIG dialog showing the DebugPort tab  
SYStem.CONFIG.state /DebugPort
```

```
;selecting the SNEAKPEEK back-end activates the SYStem.SNEAKPEEK commands  
SYStem.CONFIG.DEBUGPORT SNEAKPEEK0
```

See also

- [SYStem.SNEAKPEEK.CONNECT](#)
- [SYStem.SNEAKPEEK.EXPLore](#)
- [SYStem.SNEAKPEEK.MODELCONFIG](#)
- [SYStem.state](#)
- [SYStem.SNEAKPEEK.DISCONNECT](#)
- [SYStem.SNEAKPEEK.MODELCOMMAND](#)
- [SYStem.SNEAKPEEK.MODELNAME](#)

SYStem.SNEAKPEEK.CONNECT

Connect to emulation or simulation

Format:	SYStem.SNEAKPEEK.CONNECT [/TRY]
---------	--

Uses the settings previously configured with the **SYStem.SNEAKPEEK** commands to load the SNEAKPEEK library and connect to the emulation or simulation.

TRY

Forces the command to continue quietly when the connection could not be established.

See also

- [SYStem.SNEAKPEEK](#)

Format: **SYStem.SNEAKPEEK.DISCONNECT** ["<transactor_name>"] [/UNUSED]

Disconnects from existing connection to the emulation or simulation and disables the periodic re-connection tries.

<transactor_name> Disconnects a named transactor when it is not used anymore.

UNUSED Disconnects from all transactors that are not used anymore.

See also

■ [SYStem.SNEAKPEEK](#)

SYStem.SNEAKPEEK.EXPLore

Display plug-in capabilities

Format: **SYStem.SNEAKPEEK.EXPLore** [<column>]

<column>: **DEFault** | **Structure** | **Connected** | **tYpe** | **UsedByCommand** | **CoNFig**

The dialog can show the available transactor interface instances of the plug-in, provided the optional enumeration interface functions have been implemented by the plug-in.

DEFault Displays a pre-defined set of columns.

Structure Contains a tree with the abstractions layers of the SNEAKPEEK API. The top level enumerates all instances of the models or scenarios. The available transactor interface instances are displayed below the model.

Connected Displays whether TRACE32 has an active connection to a model or transactor instance. Mainly the commands [SYStem.SNEAKPEEK.CONNECT](#) and [SYStem.SNEAKPEEK.DISCONNECT](#) are used to change the connection state.

tYpe Type of the node, e.g. model or certain transactor type.

UsedByCommand Displays a list of configuration commands that are active and point to the transactor instance.

CoNFig Displays the configuration string.

Example:

```
SYStem.SNEAKPEEK.EXPLore DEFault
```

See also

- [SYStem.SNEAKPEEK](#)

SYStem.SNEAKPEEK.MODELCOMMAND

Execute command in plug-in

Format:	SYStem.SNEAKPEEK.MODELCOMMAND "<command>"
---------	--

Executes a plug-in specific command.

Example:

```
SYStem.SNEAKPEEK.MODELCOMMAND "do something important"  
LOCAL &result  
&result=EVAL.STRING()  
PRINT "Result was: &result"
```

See also

- [SYStem.SNEAKPEEK](#)

SYStem.SNEAKPEEK.MODELCOMFIG

Configure emulation options

Format:	SYStem.SNEAKPEEK.MODELCOMFIG "<configuration>"
---------	---

Configures the options to connect to the emulation or simulator. The particular options are defined by the 3rd-party plug-in.

See also

- [SYStem.SNEAKPEEK](#)

Format: **SYStem.SNEAKPEEK.MODELNAME "⟨model_name⟩"**

Selects a certain emulation out of a set of emulations.

See also

- [SYStem.SNEAKPEEK](#)