MIPS base - Software Development Suite

System Navigator
for MIPS32 and MIPS64

A product of MIPS Technologies, inc.

Flash Technology

2010年7月12日

About Flash Technology

- ◆ We are distributors of electronic development and test tools

- ◆ We are founded in Singapore more than ten years

- ◆ We have branch offices in Hong Kong and Shanghai

- ◆ We have lots of partners and customers, such as Intel ,AMD,HP, Dell,Freescale, NXP, Infineon. …

Agenda –Development suite

- System Navigator EJTAG probe for MIPS32 and MIPS64

- System Navigator Console

- MIPS GDB/Insight

- System Navigator ICS (un-present)
  - -- Eclipse IDE for development
  - -- Code Sourcery g++ for MIPS

System Navigator EJTAG probe

The System Navigator probe host software runs on a Windows® XP or Linux PC over a USB2.0 or 10/100 Ethernet host connection. It provides a source-level debug solution with PDtrace™(Program and Data Trace) and complex breakpoint support when used with the MIPS Navigator™ ICS product.

EJTAG probe Features

• Utilizes On-chip Instrumentation (OCI™) trace and debug extensions in the synthesizable core

• Cores supported include all MIPS32 and MIPS64 cores including: M4K®, 4K®, 5K®, 24K®, 34K™, 74K™, 1004K™ families

• Supports on-chip trace if configured in the core

• Off-chip trace version available (System Navigator Pro product)

• A USB2.0 or 10/100 Ethernet host connection

• Broadcom processors with MIPS EJTAG v2.0 or later

** Extend many features explained at application topic.

Product codes

SNAV-MIPS-USB	System Navigator, USB 2.0 interface
SNAV-MIPS-ETH	System Navigator with 10/100 Ethernet and USB 2.0 interface
SNP-2048	System Navigator Pro, 2GB off-chip trace
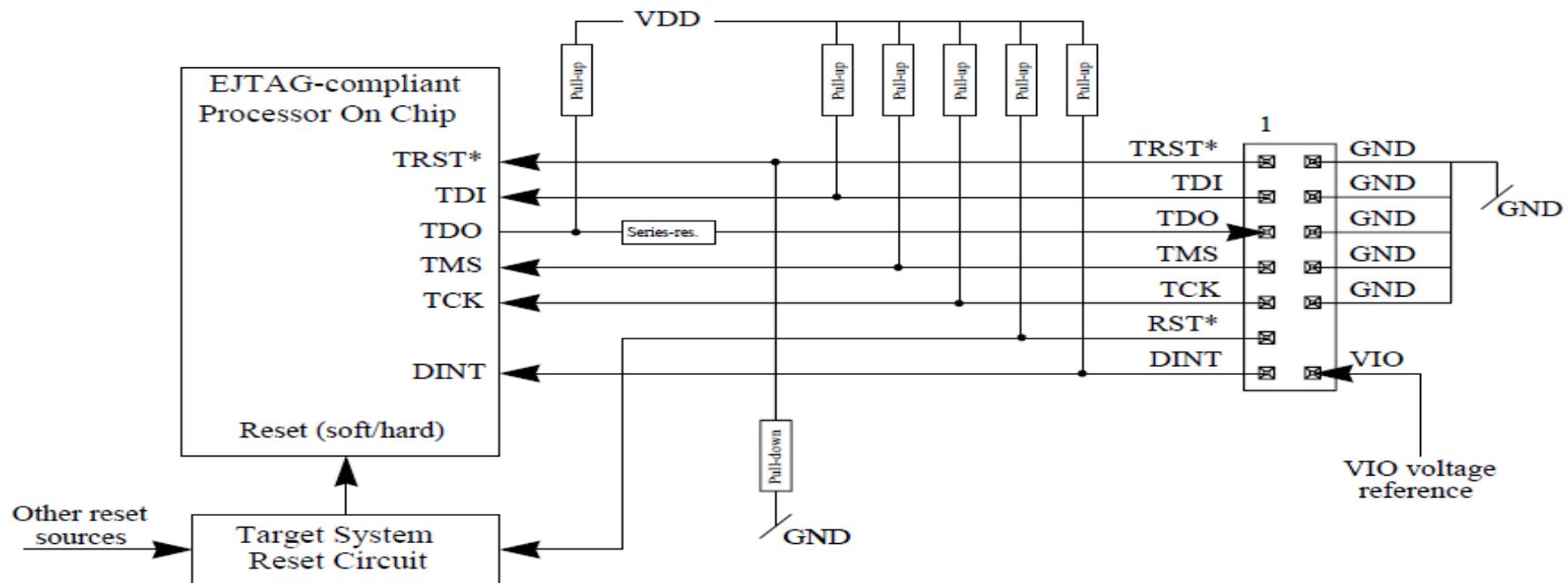
Using probe 1

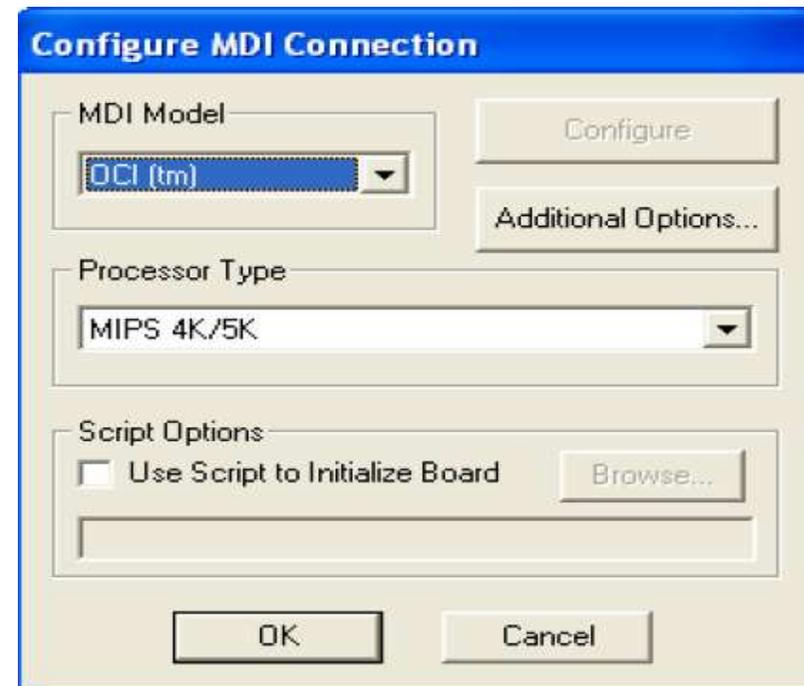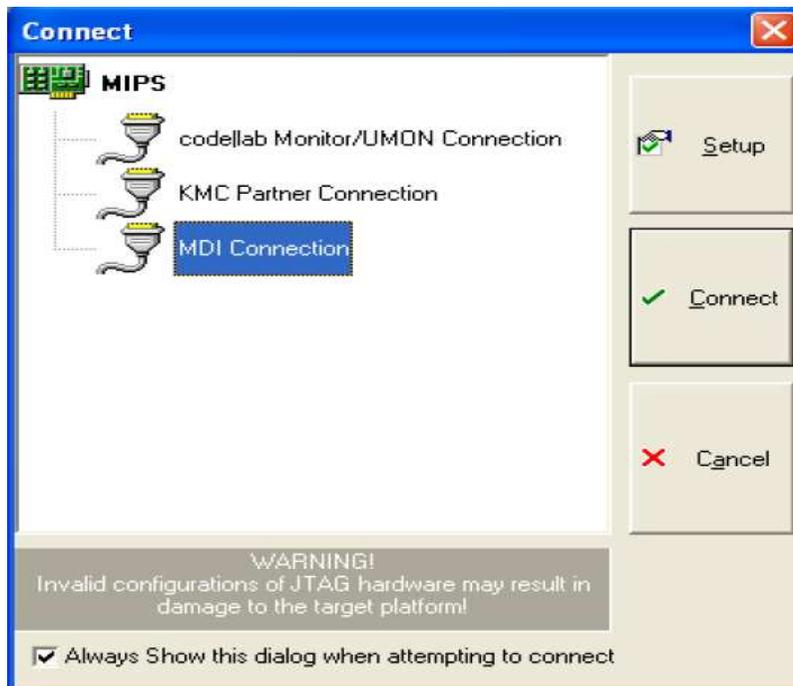1, System Navigator Console

A command-line interface (CLI) based on Tcl/Tk.
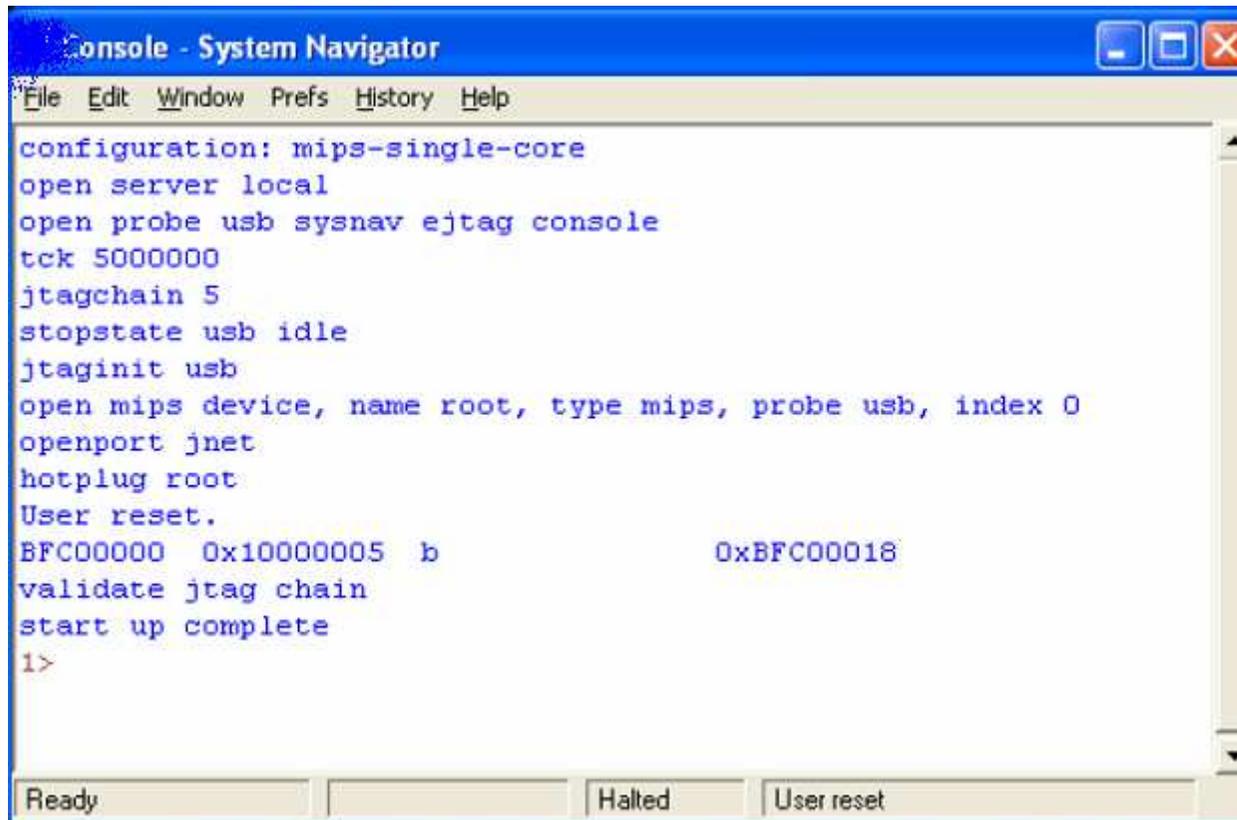
Using probe 2

2, Third-party source-level debugger applications.

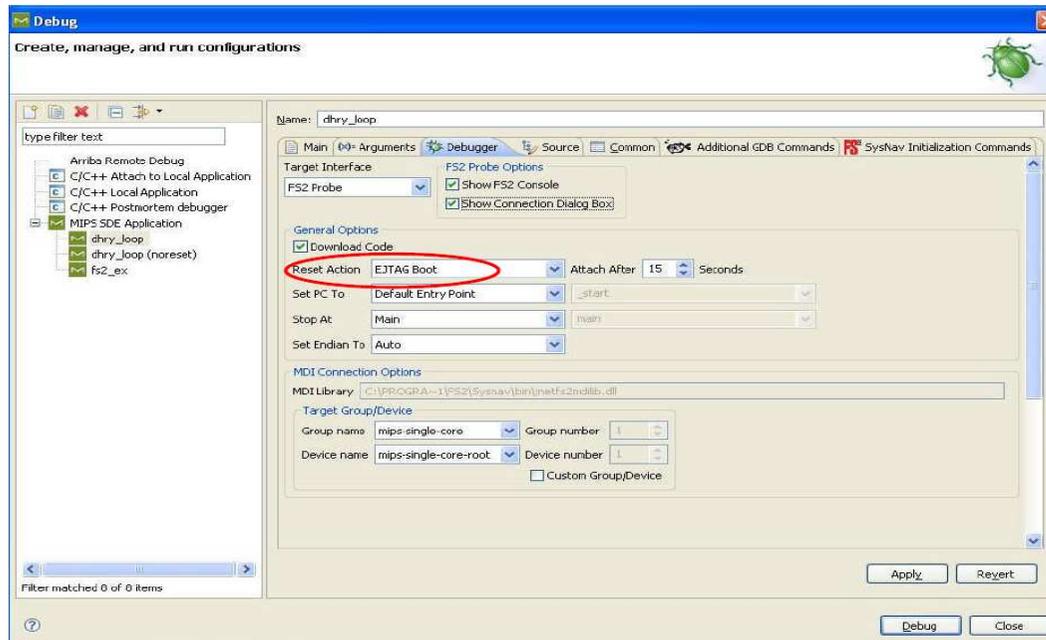**MIPS GDB/insight**

Mentor API code|lab

Green Hill MULTI

Using probe 3

3, System Navigator ICS

4, System Navigator Probe provided an interface called **MDI** (microprocessor debug interface), This interface is used by third party application .

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    - -- Eclipse IDE for development
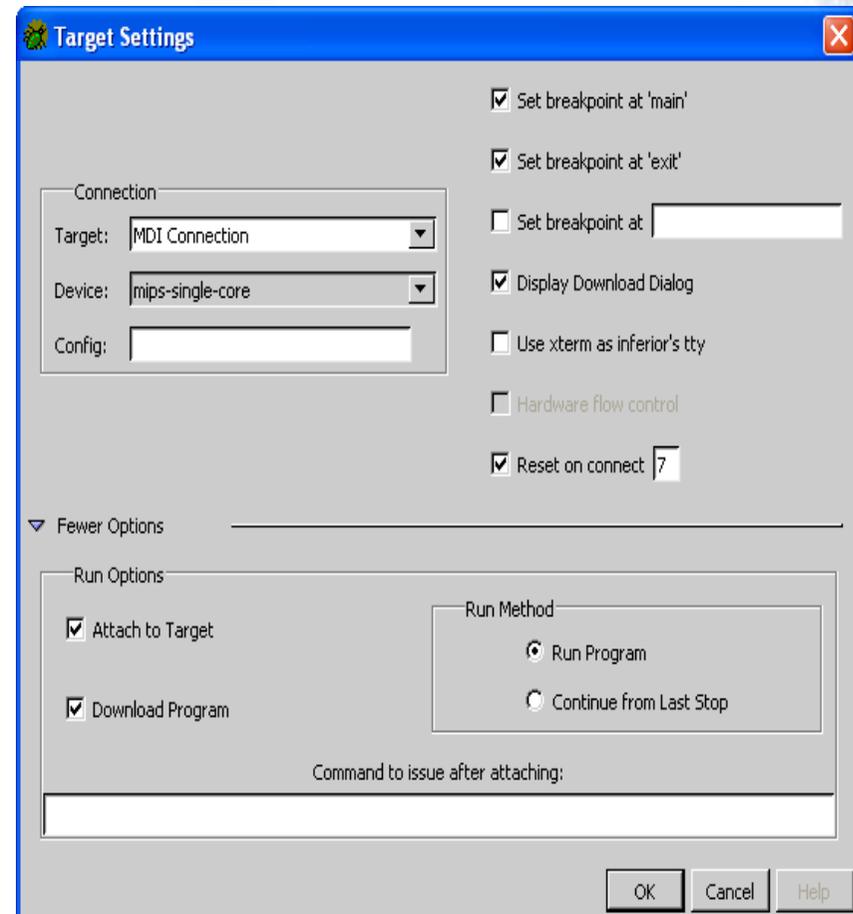   - -- Code Sourcery g++ for MIPS

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System Navigator console

- ◆ Based on Tcl/Tk

  http://www.tcl.tk

  A number of command primitives and Tcl procedures have been added to customize Tcl for this application. Commands are included for system configuration, emulation control, memory access including an assembler and disassembler, register access, trace and trigger access, file download, and status indication. The commands are detailed in the *MIPS Console Command Reference*.

- ◆ Debugger and program flash

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MIPS GDB/Insight 1

The MIPS SDE toolchain is available as a fully supported software kit

or as a free, unsupported SDE Lite.

SDE Lite:

http://www.mips.com/products/softwaretools /software_tools/MIPS_SDE_Lite.php SDE

tool

MIPS GDB/Insight 2

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Conclusion

Any question, do not hesitate to ask us.

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Thank you

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