

TOTALVIEW PLATFORMS AND SYSTEM REQUIREMENTS



VERSION 8.6



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TotalView Debugger uses a modified version of the Microline widget library. Under the terms of its license, you are entitled to use these modifications. The source code is available at <http://www.totalviewtech.com/Products/TotalView/developers>.

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Platforms, Compilers, and Environments



Requirements

To run TotalView® Debugger on your system, you must have the correct hardware configuration and the correct software installed.

The following table shows the supported computers and operating system and the TotalView Debugger for version 8.6.

Platform

Vendor-based Systems

- "Apple Macintosh" (see page 3)
- "Cray XT Series" (see page 4)
- "HP Alpha Tru64 UNIX" (see page 5)
- "HP HP-UX for IA-64" (see page 6)
- "IBM Blue Gene/l and Blue Gene/P" (see page 7)
- "IBM Power Linux" (see page 7)
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- "Sun SPARC Solaris" (see page 13)
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Linux-based Systems

- "32-Bit x86 Linux" (see page 15)
- "64-Bit x86-64 Linux" (see page 17)
- "Intel IA-64 Linux" (see page 18)
- "Other Linux x86 Computers" (see page 19)

You may also want to read the *TotalView Release Notes* which describes problems that have been fixed or still exist.

Requirements

When you install TotalView, you also need to install the FLEXlm license manager. The following list contains the computers upon which it runs and the minimum operating system version for each. You may, of course, use later versions of these operating systems.

Platform	Operating System Version
Apple Mac OS X	OS X 10.4
HP Alpha Tru64 UNIX	4.0F
HP HP-UX for IA-64	HP UX 11i, version 2.0 (11.23)
IBM Linux Power	SuSE Linux Enterprise Server 9
IBM RS/6000 Power AIX	5.1L
Intel em64t/AMD Athlon	See "64-Bit x86-64 Linux" on page 17. In all cases, the server can run on any of these versions.
Intel IA-64 Linux	See "Intel IA-64 Linux" on page 18. In all cases, the server can run on any of these versions.
Intel x86/AMD Athlon	See "32-Bit x86 Linux" on page 15. In all cases, the server can run on any of these versions.
SGI IRIX MIPS	6.5.24f
Sun SPARC Solaris	8.0

Apple Macintosh

In the following chart, the font in the right column indicates platform availability, as follows:

- Plain text: G4 or G5 systems
- Underlined text: Intel systems
- **Bold text**: All systems

General Information

Operating Systems	Apple Macintosh 10.4 , 10.4.4, <u>10.4.5</u> , 10.4.8 , 10.4.9 , 10.5 , and 10.5.2 (Leopard)
Hardware Requirements	<ul style="list-style-type: none"> ■ Apple G4 or G5 based Macintosh workstations or servers. ■ Macintosh Duo core-based systems; this includes the MacBook, iMac, and Mac Mini

Compiler or Environment Product

C and C++	GNU GCC 3.3 Apple Build 1495, 4.0 Apple Build 4061, 4.01 Apple Build 5250 <u>Intel C/C++ for Mac OS X 9.1 and 10.0</u>
FORTRAN 77 and 90	Absoft Pro Compiler 9.2 <u>and 10.0</u> GNU GCC 3.4 hpc.sf.net. build (FORTRAN 77 only) and GCC 4 hpc.sf.net (Fortran 90 only) <u>Intel Fortran for Mac OS X 9.1 and 10.0</u>
MPI	Argonne MPICH version 1.2.6 and 1.2.7 Argonne MPICH2, version 1.06 LAM MPI 7.1.1 Open-MPI.org Open MPI 1.2.4 and 1.2.5
OpenMP C and C++	<u>Intel C/C++ for Mac OS X 9.1 and 10.0</u>
OpenMP Fortran 77 and Fortran 90	<u>Intel Fortran for Mac OS X 9.1 and 10.0</u>



If you are using one of the compilers listed here and its version is not listed, you will usually be able to debug your programs. We will be happy to assist you if problems occur.

Special Requirements

X11 must be installed in order to run the TotalView GUI. Before starting TotalView, the server must be running. We recommend that you use the free "X11 for Mac OS X". You can obtain it at <http://www.apple.com/downloads/macosx/apple/x11formacosx.html>. You can read about this version of X11 by going to: <http://www.apple.com/macosx/features/x11/>.

Cray XT Series

General Information

Operating Systems	The UNICOS/lc environment provides a front-end node environment based on SuSE Linux Enterprise Server 9. The back-end uses either Catamount or Compute Node Linux (CNL).
Hardware Requirements	Cray XT Catamount and Cray XT CNL A computer can be booted in either of these modes.

Compiler or Environment Product

C and C++	GNU GCC 3.4.6
FORTRAN 77	GNU GCC 3.4.6
MPI	Argonne MPICH 1.2.6 and 1.2.7

HP

HP Alpha Tru64 UNIX

General Information

Operating Systems	HPQ (Alpha) Tru64 UNIX versions V4.0F and V5.1B; both versions require patches.
Hardware Requirements	Any Alpha processor-based computer

Compiler or Environment Product

C	GNU GCC 3.4 HPQ C for Tru64 6.4 and 6.5
C++	GNU GCC 3.4 HPQ C++ for Tru64 6.3 and 6.5
FORTRAN 77	GNU GCC 3.4 HPQ Fortran for Tru64 5.4 and 5.5A
Fortran 90	HPQ Fortran for Tru64 5.4 and 5.5A
MPI	Argonne MPICH, versions 1.2.6 and 1.2.7 HPQ MPI 1.9 and 1.96—1.95 is <i>not</i> supported Quadrics RMS in SC v2.0 and v2.5 running on HPQ AlphaServer 2.5
OpenMP C	HPQ C for Tru64 6.4
OpenMP C++	HPQ C++ for Tru64 6.3 and 6.5
OpenMP Fortran 77 and 90	HPQ Fortran for Tru64 5.4 and 5.5A
PVM	ORNL PVM, version 3.4.4 Note: PVM support may be withdrawn in a future release.
UPC	HPQ UPC Compiler 2.0 and 2.1



If you are using one of the compilers listed here and its version is not listed, you will usually be able to debug your programs. We will be happy to assist you if problems occur.

Restrictions

For additional information, see the *TotalView Debugger Release Notes*.

HP HP-UX for IA-64

General Information

Operating Systems	HP-UX, version 11i, version 2.0 (11.23)
Hardware Requirements	Itanium or Itanium 2 processor (IPF)

Compiler or Environment Product

C	GNU GCC 3.3, 3.4, and 4.0 HP C/ANSI C, version A.05.50
C++	GNU GCC 3.3, 3.4, and 4.0 HP aC++ A.05.50
Fortran 77	GNU GCC 3.3 and 3.4 HP Fortran, version 2.7
Fortran 90	HP Fortran 90, version 2.7
MPI	HP MPI, versions 1.8, 2.0, and 2.1



If you are using one of the compilers listed here and its version is not listed, you will usually be able to debug your programs. We will be happy to assist you if problems occur.

IBM

IBM Blue Gene/L and Blue Gene/P

General Information

Operating Systems SuSE Linux Enterprise Server 9 for the front end-nodes

Compiler or Environment Product

C and C++ IBM XL C/C++ 7.0 and 8.0
 FORTRAN 77 and Fortran 90 IBM XL Fortran 9.1 and 10.1
 Parallel Runtimes BlueGene Software Releases DRV202-2005 and Release 1 DRV521_2004
 BlueGene V1R2M0 (BGP), V1R3M1, and V1R3M0

IBM Cell Broadband Engine

General Information

Operating Systems RedHat Enterprise Linux AS 5, update1
 RedHat Fedora Core 6 and 7

Compiler or Environment Product

C and C++ GNU GCC 4.1.1-PPU and 4.1.2
 GNU GCC 4.1.1-SPU
 IBM Cell Broadband Engine SDKs 2.1 and 3.0
 IBM XL C/C++ 8.2-PPU
 IBM XL C/C++ 8.2-SPU
 Parallel Runtimes Argonne MPICH 1.2.6 and 1.2.7
 Argonne MPICH2 1.0.5p4 and 1.06
 Open-MPI.org Open MPI 1.2.4 and 1.3.5
 Scali MPI 4.4.2
 System Solution Sony Zego (BCU-100) Initial Release

IBM Power Linux

General Information

Operating Systems ■ Novell SuSE Linux Enterprise Server 9 and 10
 ■ Red Hat Enterprise Linux AS 3 update 9, 4 update 4, and 5 update 1
 Hardware Requirements Any IBM Pseries hardware supporting Linux

Compiler or Environment Product

C and C++ GNU GCC 3.4, 4.0, 4.1, and 4.2
 IBM XL 7.0 and 8.0
 FORTRAN 77 Absoft Pro Compiler 9.0
 GNU GCC 3.4
 IBM XL Fortran 9.1 and 10.1

General Information

Operating Systems	<ul style="list-style-type: none"> ■ Novell SuSE Linux Enterprise Server 9 and 10 ■ Red Hat Enterprise Linux AS 3 update 9, 4 update 4, and 5 update 1
Hardware Requirements	Any IBM Pseries hardware supporting Linux

Compiler or Environment Product

Fortran 90	Absoft Pro Compiler 9.0 IBM XL Fortran 9.1 and 10.1
MPI	Argonne MPICH 1.2.6 and 1.2.7 Argonne MPICH2 1.0.5p4 and 1.06 Open-MPI.org Open MPI 1.2.4 and 1.2.5 Scali MPI 4.4.2



If you are using one of the compilers listed here and its version is not listed, you will usually be able to debug your programs. We will be happy to assist you if problems occur.

Restrictions

- Debugging threaded programs (pthreads) that call **exec()** is not yet supported.
- TotalView cannot obtain pointer arguments from the Lahey/Fujitsu Fortran 90 compiler.
- For additional information, see the *TotalView Release Notes*.

IBM RS/6000 Power AIX

General Information

Operating Systems	AIX version 5.1L, 5.2L, 5.3L, and 6.1 (see Restrictions below)
Hardware Requirements	Any RS/6000 or RS/6000SP machine

Compiler or Environment Product

C and C++	GNU GCC 3.4, 4.0, and 4.1 IBM XL 6.0, 7.0, 8.0, 9.0, and 10.1
FORTRAN 77	GNU GCC 3.4 IBM XL Fortran 8.1, 9.1, 10.1, 11.1, and 12.1
Fortran 90	IBM XL Fortran 8.1, 9.1, 10.1, 11.1, and 12.1
MPI	Argonne MPICH, version 1.2.6 and 1.2.7 Argonne MPICH2, version 1.0.5p4 IBM Parallel Environment 3.2, 4.1, and 4.2 Open-MPI.org Open MPI 1.2.4 and 1.2.5 See <i>Restrictions</i> below
OpenMP C/C++	IBM XL C/C++ 6.0, 7.0, 8.0, 9.0, and 10.1
OpenMP Fortran 77 and 90	IBM XL Fortran 8.1, 9.1, 10.1, 11.1, and 12.1
PVM	ORNL PVM, version 3.4.4 Note: PVM support may be withdrawn in a future release.



If you are using one of the compilers listed here and its version is not listed, you will usually be able to debug your programs. We will be happy to assist you if problems occur.

Restrictions

- IBM PVME is not supported.
- To use the Message Queue Display (MOD) feature of TotalView with applications using IBM MPI Parallel Environment (PE), you must have PE version 3.2 or 4.1 and higher, and you must be using the threaded version of the MPI library.
- For additional information, see the *TotalView Release Notes*.

Myrinet Support

Version 1.1.3 of the Myrinet GM software supports TotalView. (GM is a message-passing system for Myrinet networks. The GM system includes a driver, Myrinet-interface control program, a network mapping program, and the GM API, library, and header files.) You can obtain this software from <http://www.myrinet.com/scs/index.html>.

SGI IRIX MIPS

General Information

Operating Systems	<ul style="list-style-type: none"> ■ IRIX version 6.5.21f and 6.5.27f (see <i>Restrictions</i> below) ■ IRIX C++ Standard Execution Environment (<code>c++_eoe</code>); this is needed to support TotalView and the TotalView Server.
Hardware Requirements	Any MIPS R4000, R4400, R4600, R5000, R8000, R10000, or R12000 processor-based computer

Compiler or Environment	Product
C, C++, FORTRAN 77, and Fortran 90	Silicon Graphics MIPSpro 7.3, 7.3.1.3m, and 7.4
MPI	Argonne MPICH, versions 1.2.6 and 1.2.7 SGI MPT, versions 1.8 and 1.9
OpenMP C, C++, FORTRAN 77, and Fortran 90	Silicon Graphics MIPSpro 7.3, 7.3.1.3m, and 7.4
PVM	ORNL PVM, version 3.4.4 Note: PVM support may be withdrawn in a future release.
UPC	Intrepid GCC UPC 3.2.3.5



If you are using one of the compilers listed here and its version is not listed, you will usually be able to debug your programs. We will be happy to assist you if problems occur.

Restrictions

- TotalView does not support programs that use the `sproc()` interface directly. However, TotalView does support the IRIX 6.5 `pthreads` on `sprocs` implementation. TotalView does, however, support debugging compiler-generated parallelism using the SGI Automatic Parallelization Option (APO) (compiler options `-pfa` and `-pca`) or SGI Parallelization Directives.
- For additional information, see the *TotalView Debugger Release Notes*.

SiCortex

General Information

Operating Systems	Gentoo Linux 1.12.18
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Compiler or Environment Product

C and C++	GNU GCC 4.1.1 Pathscale EKOPath 1.0 and 3.1
Fortran 90	Pathscale EKOPath 1.0 and 3.1
MPI	SiCortex MPI (based on MPICH 2)

Sun Solaris

Sun SPARC Solaris

General Information

Operating Systems	Solaris 9 or 10
Hardware Requirements	Any SPARC processor-based computer

Compiler or Environment Product

C and C++	Apogee Compiler Suite 4.013 (<i>C-only</i>) GNU GCC 3.4, 4.0, and 4.1 Sun One Studio 9, 10, and 11
FORTRAN 77	GNU GCC 3.4 Sun Studio 9, 10, and 11
Fortran 90	Sun Studio 9, 10, and 11
OpenMP C, C++, FORTRAN 77, and Fortran 90	Sun Studio 11
MPI	Argonne MPICH, versions 1.2.6 and 1.2.7 Argonne MPICH2, version 1.0.5p4 Open-MPI.org Open MPI 1.2.4 and 1.2.5 Sun Cluster Tools 6 and 7
PVM	ORNL PVM, version 3.4.4 Note: PVM support may be withdrawn in a future release.



If you are using one of the compilers listed here and its version is not listed, you will usually be able to debug your programs. We will be happy to assist you if problems occur.

Restrictions

For additional information, consult for the *TotalView Release Notes*.

Sun Solaris Opteron

General Information

Operating Systems Solaris 10

Compiler or Environment Product

C and C++	GNU GCC 3.4, 4.0, 4.1, and 4.2 Sun One Studio 10, 11, and 12
FORTRAN 77	GNU GCC 3.4 Sun Studio 10, 11, and 12
Fortran 90	Sun Studio 10, 11, and 12
OpenMP C, C++, FORTRAN 77, and Fortran 90	Sun Studio 11 and 12
MPI	Argonne MPICH, version 1.2.7 Argonne MPICH2 1.0.5p4 Open-MPI.org Open MPI 1.2.4 and 1.2.5 OSU MVAPICH2 1.0 Sun Clustertools 6 and 7



If you are using one of the compilers listed here and its version is not listed, you will usually be able to debug your programs. We will be happy to assist you if problems occur.

Restrictions

For additional information, see the *TotalView Release Notes*.

Linux

32-Bit x86 Linux

General Information

Operating Systems	<ul style="list-style-type: none"> ■ Novell SuSE Linux 10 and 10.1 ■ Novell SuSE Linux Enterprise Server 9, 9 SP 3, and 10 ■ Red Hat Enterprise AS 3, 3 update 9, 4, 4 update 4, 4 update 5, and 5 ■ Red Hat Fedora Core 5, 6, and Fedora 7, 8, and 9 ■ Ubuntu 6.06 and 6.10
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Compiler or Environment Product

C and C++	<p>GNU GCC 3.2, 3.4, 4.0, 4.1, and 4.2</p> <p>Intel C/C++ Compiler for Linux 9.0, 9.1, 10.0, and 10.1</p> <p>PGI Workstation 7.1 and 7.2</p> <p>Pathscale EKO 2.4, 2.5, 3.0, and 3.1</p> <p>Sun Studio 12</p>
FORTRAN 77 and Fortran 90	<p>Absoft Pro 9.0 and 10</p> <p>GNU GCC 3.2 and 3.4 (FORTRAN 77 only)</p> <p>GNU gfortran 4.1.2-4 2 (RH ES 5u2)</p> <p>Intel Fortran Compiler for Linux 9.0, 9.1, 10.0, and 10.1</p> <p>Lahey Fortran 9 for Linux 62 (Fortran 90 and 95)</p> <p>PGI Workstation 7.1 and 7.2</p> <p>Pathscale EKO 2.4, 2.5, 3.0, and 3.1</p> <p>Sun Studio 12</p>
MPI	<p>Argonne MPICH, versions 1.2.6 and 1.2.7</p> <p>Argonne MPICH2 1.0.5p4 and 1.06</p> <p>GNU SLURM 1.2</p> <p>HP MPI 2.1</p> <p>Intel MPI 1.0, 2.0, and 3.0</p> <p>LAM-MPI 7.0 and 7.1</p> <p>Open-MPI.org Open MPI 1.2.4 and 1.2.5</p> <p>OSU MVAPICH, version 0.9; MVAPICH2, version 1.0</p> <p>Quadrics RMS 2.8</p> <p>Scali MPI 4.4.2</p> <p>Verari (MSTI) MPI/Pro, version 1.6</p>
OpenMP C and C++	<p>Intel C/C++ Compiler for Linux 9.0, 9.1, 10.0, and 10.1</p> <p>PGI Workstation 7.1 and 7.2</p> <p>Sun Studio 12</p>
OpenMP FORTRAN 77 and Fortran 90	<p>GNU gfortran 4.1.2-4 2 (RH ES 5u2)</p> <p>Intel Fortran Compiler for Linux 9.0, 9.1, 10.0, and 10.1</p> <p>PGI Workstation 7.1 and 7.2</p> <p>Sun Studio 12</p>

PVM	ORNL PVM, version 3.4.4 (PVM support may be withdrawn in a future release)
UPC	Berkeley UPC 2.2



If you are using one of the compilers listed here and its version is not listed, you will usually be able to debug your programs. We will be happy to assist you if problems occur.

Restrictions

For additional information, consult the *TotalView Release Notes*.

64-Bit x86-64 Linux

General Information

Operating Systems	<ul style="list-style-type: none"> ■ Cray HPC Enhanced Linux 1.1 ■ Novell SuSE Linux 10 and 10.1 ■ Novell SuSE Linux Enterprise Server 9, 9 SP 3, and 10 ■ Red Hat Enterprise Linux AS 3, 3 update 9, 4, 4 update 4, 4 update 5, 5, and 5 Updates 1 and 2 ■ Red Hat Fedora Core 5, 6, and Fedora 7, 8, and 9 ■ SGI Altix (SLES 10 SP1 + ProPack 5 SP3) ■ Ubuntu 6.06 and 6.10
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Compiler or Environment Product

C and C++	GNU GCC 3.2, 3.4, 4.0, 4.1, and 4.2 Intel C/C++ Compiler for Linux 9.0, 9.1, 10.0, and 10.1 Pathscale EKO 2.4, 2.5, 3.0, and 3.1 PGI Workstation C/C++ 7.1 and 7.2 Sun Studio 12
FORTRAN 77 and Fortran 90	Absoft Pro 9.0 and 10.0 GNU GCC 3.2 and 3.4 (FORTRAN 77 only) GNU gfortran 4.1.2-4 2 (RH ES 5u2) Intel Fortran Compiler for Linux 9.0, 9.1, 10.0, and 10.1 PGI Workstation 7.1 and 7.2 Pathscale EKO 2.4, 2.5, 3.0, and 3.1 Sun Studio 12
MPI	Argonne MPICH 1.2.6 and 1.2.7 Argonne MPICH2 1.0.5p4, 1.0.6, and 1.0.7 GNU SLURM 1.2 HP MPI 2.1 Intel MPI 1.0, 2.0, and 3.0 LAM MPI 7.1.1 Open-MPI.org Open MPI 1.2.4 and 1.2.5 OSU MVAPICH, version 0.9; MVAPICH2, version 1.0 Scali MPI 4.4.2 SGI MPT 1.17 SGI Propack 5 SP 3
OpenMP C/C++	Intel C/C++ Compiler for Linux 9.0, 9.1, and 10.0 PGI Workstation 7.1 and 7.2 Sun Studio 12
OpenMP FORTRAN 77 and Fortran 90	GNU gfortran 4.1.2-4 2 (RH ES 5u2) Intel Fortran Compiler for Linux 9.0, 9.1, 10.0, and 10.1 PGI Workstation 7.1 and 7.2 Sun Studio 12



If you are using one of the compilers listed here and its version is not listed, you will usually be able to debug your programs. We will be happy to assist you if problems occur.

Restrictions

For additional information, consult the *TotalView Release Notes*.

Intel IA-64 Linux

General Information

Operating Systems	<ul style="list-style-type: none"> ■ Novell SuSE Enterprise Server 9, 9 SP 3, and 10 ■ Red Hat Enterprise AS 3, AS 3 update 9, 4 update 4, 4 update 5, 5, and 5 update 1 ■ SGI Altix (AL 3 and ProPack 3, RHEL 4, SLES 9, and SLES 9 SP 1 and ProPack 4), SGI (SLES 10 SP 1 and ProPack 5, SP 3) ■ SGI Advanced Linux Environment 3
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Compiler or Environment Product

C and C++	GNU GCC 3.2, 3.4, 4.0, 4.1, and 4.2 Intel C/C++ Compiler for Linux 9.0, 9.1, and 10.0
FORTRAN 77	GNU GCC 3.2 and 3.4 Intel Fortran Compiler for Linux 9.0, 9.1, and 10.0
Fortran 90	Intel Fortran Compiler for Linux 9.0, 9.1, and 10.0
MPI	Argonne MPICH, versions 1.2.6 and 1.2.7 Argonne MPICH2 1.0.5p4 HP MPI 2.1 Intel MPI 1.0, 2.0, and 3.0 Open-MPI.org Open MPI 1.2.4 and 1.2.5 OSU MVAPICH, version 0.9; MVAPICH2, version 1.0 Quadrics RMS, version 2.8 Scali MPI 4.4.2 SGI MPT 1.7, 1.8, and 1.9 SGI ProPack for Linux 3, 4, and 5 SP 3
OpenMP C and C++	Intel C/C++ Compiler for Linux 9.0, 9.1, and 10.0
OpenMP FORTRAN 77 and Fortran 90	Intel Fortran Compiler for Linux 9.0, 9.1, and 10.0



If you are using one of the compilers listed here and its version is not listed, you will usually be able to debug your programs. We will be happy to assist you if problems occur.

Restrictions

For additional information, consult the *TotalView Release Notes*.

Other Linux x86 Computers

TotalView is tested using Red Hat and SuSe Linux, TotalView should not fail on other Linux x86-based systems.

The TotalView executable image uses the following dynamic libraries:

- libX11.so.6
- libm.so.6
- libutil.so.1
- libdl.so.2
- libc.so.6

We would be interested to hear about your experiences in using TotalView on other Linux distributions.

Other Linux Hints

If you have source code for Linux run time libraries available on your system, TotalView should be able to display this code provided that it appears in the directory from which its debug information claims that it was compiled. On Red Hat systems, this is `/usr/src/bs/BUILD`; other systems may vary. Since the source RPMS on Red Hat installs sources under `/usr/src/redhat/BUILD`, a simple symbolic link so that `/usr/src/redhat` also appears as `/usr/src/bs` is all that is required.

To work out where your library sources claim to have been compiled you should do the following:

```
objdump --stabs library_of_interest | grep S0 | head -5
```

Here's an example.

```
% objdump --stabs /lib/libc.so.6 | grep S0 | head -5
0  S0 0 0 000000000017a10 9  /usr/src/bs/BUILD/glibc/ elf/
1  S0 0 0 000000000017a10 0  soinit.c
96 S0 0 0 000000000017a58 954
97 S0 0 0 000000000017a60 2340 /usr/src/bs/BUILD/glibc/csu/
98 S0 0 0 000000000017a60 2369 ../sysdeps/unix/sysv/linux/init-first.c
```

Here you can see that the library was compiled from `/usr/src/bs`.

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