

The Paradyn Port Report

Barton P. Miller

bart@cs.wisc.edu

Computer Sciences Department

University of Wisconsin

1210 W. Dayton Street

Madison, WI 53706-1685

USA



Supported Systems

(your mileage may vary)

Paradyn/DynInst available on these platforms:

- Solaris 2.5 and 2.6 (SPARC)
- Solaris 2.5 and 2.6 (x86)
- Windows NT 4.0 (x86)
- Linux 2.0.36 and others (x86)
- Irix 6.4 and 6.5 (MIPS)
- Digital/Tru64 Unix (Alpha)
- *AIX 4.1.5 [Paradyn], 4.2 [DynInst] (Power2/SP2)*

Paradyn Release 3.0

Includes

- Solaris (SPARC and x86)
- Windows/NT (with front-end)
- Linux
- Irix
- DEC/Tru64 UNIX (Dyninst only)
- *AIX on hold (for Paradyn).*

Target: mid May (2Q99).

Solaris (SPARC)

- Base development platform
- Shared objects
- Shared-memory sampling
- Partial 64-bit support
- Function relocation/expansion
- Thread instrumentation
- Multiple compiler support

Solaris (x86)

- Shared objects
- Shared-memory sampling
- Multiple compiler support

Windows/NT

- Shared objects (dll's)
- Shared-memory sampling
- Histogram visualization 50% ported
- Executable file clean-up issues
- “detach” a problem

Linux (x86)

- Shared objects
- Shared-memory sampling
- Will support HW counters for wall-time

Irix (MIPS)

- Shared objects
- Shared-memory sampling
- Dynamic heap
- Partial 64-bit support
- Single-instruction patch jumps
- Multiple compiler support
- Still resolving timer access
- Dynamic process creation to be done
- Hardware timers - almost

Digital/Tru64 Unix (Alpha)

- Dyninst stable, Paradyn not updated
- Shared-memory sampling
- 64-bit support
- Multiple compiler support
- Arbitrary instruction instrumentation

AIX (Power2)

- Paradyn on hold, pending support
- Dyninst-only version from Maryland
- Multiple compiler support
- Arbitrary instruction instrumentation