

# **Oracle Solaris Studio 12.3 Distribution Readme**

December 2011

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## 1. Libraries for Solaris on SPARC and x86 Platforms

- C++ Libraries
  - `librwtool.so.2`
  - `libstlport.so.1`
- Fortran Libraries
  - `libf77compat.so.1` (SPARC only)
  - `libfai.so.3` (SPARC only)
  - `libfai.so.2` (SPARC only)
  - `libfai.so.1`
  - `libfai2.so.3` (SPARC only)
  - `libfai2.so.2` (SPARC only)
  - `libfai2.so.1` (SPARC only)
  - `libfmaxlai.so.1` (SPARC only)
  - `libfmaxvai.so.1` (SPARC only)
  - `libfminlai.so.1` (SPARC only)
  - `libfminvai.so.1` (SPARC only)
  - `libfprodai.so.1` (SPARC only)
  - `libfsumai.so.1` (SPARC only)
  - `libfsu.so.1`
  - `libfui.so.2`
  - `libfui.so.1`
  - `libfai_isa.so.1` (SPARC only)
  - `libfai2_isa.so.1` (SPARC only)
  - `libfmaxlai_isa.so.1` (SPARC only)
  - `libfmaxvai_isa.so.1` (SPARC only)
  - `libfminlai_isa.so.1` (SPARC only)
  - `libfminvai_isa.so.1` (SPARC only)
  - `libfprodai_isa.so.1` (SPARC only)
  - `libfsumai_isa.so.1` (SPARC only)
  - `libV77.so.2` (SPARC only)
  - `libV77.so.3` (SPARC only)
- Math Libraries
  - `libsunmath.so.1`
- Scientific Libraries
  - `libsunperf.so.8` (SPARC only)
  - `libsunperf.so.3` (x86 only)
  - `libsunperf.so.4` (x86 only)
- Garbage Collection
  - `libgc.so.1`

## 2. Libraries for Linux on x86/x64 Platforms

- C++ Libraries
  - libCrun.so.1
  - libCrunG3.so.1
  - libCstd.so.1
  - libdemangle.so.1
  - libiostream.so.1
  - librwtool.so.2
  - libstlport.so.1
- Fortran Libraries
  - libfai.so.1
  - libfsu.so.1
  - libfui.so.1
- Microtasking Libraries
  - libmtsk.so.1
  - libmtsk\_db.so.1
  - libmtsk\_crt.so.1
- Scientific Libraries
  - libsunperf.so.3
- Profiling Libraries
  - libtdf.so.1
  - libxprof.so.1

## 3. Object Files

- CCrti.o
- CCrtn.o
- crt1.o
- crti.o
- crtn.o
- gcrt1.o
- mcrt1.o
- mtsk\_crt.o
- pagesize.o
- prof\_func.o
- values-xa.o
- values-xc.o
- values-xi.o
- values-xpg4.o
- values-xs.o
- values-xt.o
- xprof\_fini.o
- misalign.o (SPARC only)
- wordalignI8.o (SPARC only)

## 4. Link-time Executables

The following executable is redistributable with object files and libraries that clients link into programs:

- `postopt` for Solaris on the SPARC Platform

`postopt` is a link-time optimizer that uses profile information (`-xprofile=use`) to optimize `.o` files and archive libraries into binary executables or shared (dynamic) libraries.

You would need to ship the `postopt` executable with your product only when all of these conditions are met:

- You supply libraries and `.o` files to be linked into a program by your clients, and
- Your clients are not expected to have Oracle Solaris Studio, and
- You normally provide a script or makefile that does the linking using `ld` directly instead of using `cc|CC|f90`, and
- You expect your clients to see runtime performance improvements when `postopt`'s link-time optimizations are enabled, and
- You HAVE compiled all or some libraries and `.o` files with the `-xlinkopt` option, and
- You did NOT compile with option `-xF`, which causes code to be fragmented into multiple sections.

ISVs who perform linking at their client site normally provide a script or makefile which uses the Solaris `ld` as follows:

```
% /usr/ccs/bin/ld /isv_install_area/crti.o ...  
<linker_options_.o_files_and_libraries> ... /isv_install_area/crtn.o
```

When using `postopt`, the user just needs to modify the command to replace `ld` with `postopt`, as follows:

```
% /isv_install_area/postopt /isv_install_area/crti.o ...  
<linker_options_.o_files_and_libraries> ... /isv_install_area/crtn.o
```

`postopt` automatically calls the Solaris `ld` after its optimizations are complete to create the final binary executable or shared library.

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