

# Oracle<sup>®</sup> Solaris Studio 12.4: Distribution Readme

January 2015

This document lists the files included in Oracle Solaris Studio 12.4 that are redistributable.

## Overview

Subject to the terms and limitation stated in the Oracle Technology Network License Agreement (the “Agreement”) for Oracle Solaris Studio (the “Program”), and any additional restrictions below, the following files are each a Redistributable and may be distributed with any program you develop, provided you remain in compliance with the Agreement.

---

**Note** - GNU GCC 4.8.2 C++11 Runtime libraries - `libstdc++.so.6`, `libstdc++.so.6.0.18`, `libgcc_s.so.1` are included in the list of redistributable libraries. These libraries are licensed under the “GCC RUNTIME LIBRARY EXCEPTION” in “Oracle Solaris Studio 12.4: Third Party Notices and Licenses”.

---

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

- C++ Libraries
  - `libCrunG3.so.1`
  - `libstlport.so.1`
  - `libstdc++.so.6`
  - `libstdc++.so.6.0.18`
  - `libgcc_s.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)
- Math Libraries
  - libsunmath.so.1
- Scientific Libraries
  - libsunperf.so.8.1 (SPARC only)
  - libsunperf.so.3.1 (x86 only)
  - libsunperf.so.4.1 (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
  - libstlport.so.1
  - libstdc++.so.6
  - libstdc++.so.6.0.18
  - libgcc\_s.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.3.1
- Profiling Libraries
  - libtdf.so.1
  - libxprof.so.1

### 3. Object Files

- `crtl.o`
- `crti.o`
- `crtn.o`
- `gcrt1.o`
- `mcrt1.o`
- `mtsk_crt.o` (Solaris only)
- `pagesize.o` (Solaris only)
- `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.

Copyright © 2011, 2015, Oracle and/or its affiliates. All rights reserved.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

If this is software or related documentation that is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, then the following notice is applicable:

U.S. GOVERNMENT END USERS. Oracle programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, delivered to U.S. Government end users are "commercial computer software" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, shall be subject to license terms and license restrictions applicable to the programs. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Xeon are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Opteron, the AMD logo, and the AMD Opteron logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group.

This software or hardware and documentation may provide access to or information about content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible or and expressly disclaim all warranties of any kind with respect to third-party content, products, and services unless otherwise set forth in an applicable agreement between you and Oracle. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services, except as set forth in an applicable agreement between you and Oracle.

#### **Documentation Accessibility**

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

#### **Access to Oracle Support**

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info> or visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs> if you are hearing impaired.

Copyright © 2011, 2015, Oracle et/ou ses affiliés. Tous droits réservés.

Ce logiciel et la documentation qui l'accompagne sont protégés par les lois sur la propriété intellectuelle. Ils sont concédés sous licence et soumis à des restrictions d'utilisation et de divulgation. Sauf stipulation expresse de votre contrat de licence ou de la loi, vous ne pouvez pas copier, reproduire, traduire, diffuser, modifier, breveter, transmettre, distribuer, exposer, exécuter, publier ou afficher le logiciel, même partiellement, sous quelque forme et par quelque procédé que ce soit. Par ailleurs, il est interdit de procéder à toute ingénierie inverse du logiciel, de le désassembler ou de le décompiler, excepté à des fins d'interopérabilité avec des logiciels tiers ou tel que prescrit par la loi.

Les informations fournies dans ce document sont susceptibles de modification sans préavis. Par ailleurs, Oracle Corporation ne garantit pas qu'elles soient exemptes d'erreurs et vous invite, le cas échéant, à lui en faire part par écrit.

Si ce logiciel, ou la documentation qui l'accompagne, est concédé sous licence au Gouvernement des Etats-Unis, ou à toute entité qui délivre la licence de ce logiciel ou l'utilise pour le compte du Gouvernement des Etats-Unis, la notice suivante s'applique:

U.S. GOVERNMENT END USERS. Oracle programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, delivered to U.S. Government end users are "commercial computer software" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, shall be subject to license terms and license restrictions applicable to the programs. No other rights are granted to the U.S. Government.

Ce logiciel ou matériel a été développé pour un usage général dans le cadre d'applications de gestion des informations. Ce logiciel ou matériel n'est pas conçu ni n'est destiné à être utilisé dans des applications à risque, notamment dans des applications pouvant causer des dommages corporels. Si vous utilisez ce logiciel ou matériel dans le cadre d'applications dangereuses, il est de votre responsabilité de prendre toutes les mesures de secours, de sauvegarde, de redondance et autres mesures nécessaires à son utilisation dans des conditions optimales de sécurité. Oracle Corporation et ses affiliés déclinent toute responsabilité quant aux dommages causés par l'utilisation de ce logiciel ou matériel pour ce type d'applications.

Oracle et Java sont des marques déposées d'Oracle Corporation et/ou de ses affiliés. Tout autre nom mentionné peut correspondre à des marques appartenant à d'autres propriétaires qu'Oracle.

Intel et Intel Xeon sont des marques ou des marques déposées d'Intel Corporation. Toutes les marques SPARC sont utilisées sous licence et sont des marques ou des marques déposées de SPARC International, Inc. AMD, Opteron, le logo AMD et le logo AMD Opteron sont des marques ou des marques déposées d'Advanced Micro Devices. UNIX est une marque déposée d'The Open Group.

Ce logiciel ou matériel et la documentation qui l'accompagne peuvent fournir des informations ou des liens donnant accès à des contenus, des produits et des services émanant de tiers. Oracle Corporation et ses affiliés déclinent toute responsabilité ou garantie expresse quant aux contenus, produits ou services émanant de tiers, sauf mention contraire stipulée dans un contrat entre vous et Oracle. En aucun cas, Oracle Corporation et ses affiliés ne sauraient être tenus pour responsables des pertes subies, des coûts occasionnés ou des dommages causés par l'accès à des contenus, produits ou services tiers, ou à leur utilisation, sauf mention contraire stipulée dans un contrat entre vous et Oracle.

#### **Accessibilité de la documentation**

Pour plus d'informations sur l'engagement d'Oracle pour l'accessibilité à la documentation, visitez le site Web Oracle Accessibility Program, à l'adresse <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

#### **Accès au support électronique**

Les clients Oracle qui ont souscrit un contrat de support ont accès au support électronique via My Oracle Support. Pour plus d'informations, visitez le site <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info> ou le site <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs> si vous êtes malentendant.