

ISE Design Suite 12 : インストール、ライセン ス、リリース ノート

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改訂履歴

次の表に、この文書の改訂履歴を示します。

日付	バージョン	改訂内容
04/19/10	12.1.0	初版リリース

このマニュアルについて

このマニュアルでは、ザイリンクスの ISE (Integrated Software Environment) ソフトウェア、ChipScope™ Pro ソフトウェア、エンベデッド ツール (エンベデッド開発キット (EDK) およびスタンドアロンのソフトウェア開発キット (SDK))、System Generator for DSP、PlanAhead™ などを含む ISE Design Suite 12 のインストール方法とそのライセンスについて説明します。また、ザイリンクス オンライン マニュアルの使用方法についても説明します。

ISE Design Suite 12 のテクニカル サポートおよび既知の問題についても説明します。

マニュアルの内容

このマニュアルは次の章から構成されています。

- 第 1 章「12.1 の新機能、リリース ノートおよび既知の問題」
- 第 2 章「OS、アーキテクチャ サポート、システム要件」
- 第 3 章「ダウンロードおよびインストール」
- 第 4 章「ライセンスの取得および管理」
- 第 5 章「テクニカル サポート、サービス、関連文書」

このマニュアルには、次の付録が含まれます。

- 付録 A「サードパーティのライセンス」

その他のリソース

追加資料はこちらのザイリンクスの Web サイトを参照してください。

<http://japan.xilinx.com/support/documentation/index.htm>

シリコンやソフトウェア、IP に関するアンサー データベースを検索したり、テクニカル サポートのウェブ ケースを開く場合は、次の Web サイトにアクセスしてください。

<http://japan.xilinx.com/support/mysupport.htm>

最新バージョンの『USB Cable Installation Guide』は、次のザイリンクスの Web サイトから入手できます。

http://japan.xilinx.com/support/documentation/user_guides/ug344.pdf

最新バージョンの Platform Cable USB II のデータシートは、次のザイリンクスの Web サイトから入手できます。

http://japan.xilinx.com/support/documentation/data_sheets/ds593.pdf

最新バージョンの Parallel Cable IV のデータシートは、次のザイリンクスの Web サイトから入手できます。

http://japan.xilinx.com/support/documentation/data_sheets/ds097.pdf

表記規則

このマニュアルでは、次の表記規則を使用しています。各規則について、例を挙げて説明します。

書体

次の規則は、すべてのマニュアルで使用されています。

表記規則	使用箇所	例
Courier フォント	システムが表示するメッセージ、プロンプト、プログラム ファイルを表示します。	<code>speed grade: - 100</code>
Courier フォント (太字)	構文内で入力するコマンドを示します。	<code>ngdbuild design_name</code>
イタリック フォント	ユーザーが値を入力する必要のある構文内の変数に使用します。	<i><code>ngdbuild design_name</code></i>
二重/一重かぎカッコ『』、『』、『』	『』はマニュアル名を、『』はセクション名を示します。	詳細については、『開発システムリファレンス ガイド』の「PAR」を参照してください。
角カッコ []	オプションの入力またはパラメータを示しますが、 <code>bus[7:0]</code> のようなバス仕様では必ず使用します。また、GUI 表記にも使用します。	<code>ngdbuild</code> [option_name] <i>design_name</i> [File] → [Open] をクリックします。
中カッコ { }	1 つ以上の項目を選択するためのリストを示します。	<code>lowpwr = {on off}</code>
縦棒	選択するリストの項目を分離します。	<code>lowpwr = {on off}</code>
縦の省略記号 . . .	繰り返し項目が省略されていることを示します。	IOB #1: Name = QOUT' IOB #2: Name = CLKIN' . . .
横の省略記号 ...	繰り返し項目が省略されていることを示します。	<code>allow block block_name loc1 loc2 ... locn;</code>

オンライン マニュアル

このマニュアルでは、次の規則が使用されています。

表記規則	使用箇所	例
青色の文字	マニュアル内の相互参照を示します。	詳細については、「 その他のリソース 」を参照してください。 詳細については、第 1 章「 タイトルフォーマット 」を参照してください。
赤色の文字	ほかのマニュアルへの相互参照を示します。	詳細については、『 Virtex-II Platform FPGA ユーザーガイド 』の 図 2-5 を参照してください。
青色の下線付き文字	Web サイト (URL) へのハイパーリンクです。	最新のスピード ファイルは、 http://japan.xilinx.com から入手できます。

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付録 A：サードパーティのライセンス

12.1 の新機能、リリース ノート および 既知の問題

この章では、ISE Design Suite 12 に含まれる重要な製品情報、新機能のリスト、既知の問題などについて説明します。この章に含まれるセクションは、次のとおりです。

- 「新機能」
- 「リリース ノート」
- 「既知の問題」

新機能

このセクションでは、新機能の情報入手方法について説明します。

Microsoft Windows のみ

新機能の情報は、japan.xilinx.com からのみ入手可能になりました。本書およびその他のマニュアルへのリンクは、ISE Design Suite の情報センタを使用してください。情報センタへは、[スタート] → [プログラム] → [Xilinx ISE Design Suite 12.1] → [マニュアル] → [ISE Design Suite 情報センタ] をクリックするとアクセスできます。

オンライン

新機能の情報は、次の Web サイトから入手できます。

http://japan.xilinx.com/support/documentation/sw_manuals/xilinx12/whatsnew.htm

System Generator for DSP は ISE Design Suite 12 に含まれます。System Generator for DSP の詳細は、次を参照してください。

<http://japan.xilinx.com/products/software/sysgen/whatsnew.htm>

PlanAhead には、12.1 で新機能が多く追加されています。PlanAhead の新機能については、次を参照してください。

<http://japan.xilinx.com/products/software/planahead/whatsnew.htm>

リリース ノート

このセクションでは、重要なリリース情報について説明します。

CORE Generator の IP

ISE Design Suite 12 の CORE Generator ソフトウェアの最初の IP (Intellectual Property) アップデートである IP_12.1.0 は、ISE Design Suite 12 ソフトウェアに既に含まれており、自動的にインストールされます。

今後、IP アップデートがあれば、XilinxNotify もしくはザイリンクスの IP コアのページ (<http://japan.xilinx.com/ipcenter>) でお知らせします。IP アップデートは、[ザイリンクス ダウンロード センタ](#)からダウンロードできます。また、通常は特定の ISE アップデートをインストールする必要があります。

IP コアの中には、ライセンス購入やライセンス キーのインストールがないと、完全なアクセス権がないものもあります。

エンベデッド ツール

Base System Builder で Xilinx SP601 および ML605 開発ボードがサポートされるようになりました。

メモ：Virtex-6 および Spartan-6 デバイスのサポートはすべて早期アクセスになります。

ModelSim ザイリンクス版 III

ModelSim Xilinx Edition III の詳細については、[『合成/シミュレーション デザイン ガイド』](#)の付録 A 「ModelSim でのザイリンクス デザインのシミュレーション」を参照してください。

ModelSim でザイリンクス デザインをシミュレーションするには、ターゲット シミュレータ用にザイリンクス シミュレーション ライブラリをコンパイルする Compplib を使用する必要があります。詳細は、[『コマンド ライン ツール ユーザー ガイド』](#)を参照してください。

PlanAhead

新規の Spartan-6 の低電力ファミリを含め、デバイス サポートをアップデートしました。ピン配置用の Virtex-6 SSN Predictor ツールも新たに追加されています。

既知の問題

ISE Design Suite 12 の既知の問題については、ザイリンクスのアンサー #34466 を参照してください。

<http://japan.xilinx.com/support/answers/34466.htm>

OS、アーキテクチャ サポート、システム要件

この章では、ISE Design Suite 12 でサポートされる OS およびアーキテクチャのほか、システム要件についても説明しています。この章に含まれるセクションは、次のとおりです。

- 「オペレーティング システム」
- 「アーキテクチャ」
- 「システム要件」

オペレーティング システム

ISE Design Suite 12 でサポートされる OS は、Microsoft Windows、Red Hat Enterprise Linux、および SUSE Linux Enterprise です。

Microsoft Windows

次の表は、Microsoft Windows のサポートについて示しています。

表 2-1 : Microsoft Windows サポート (英語版/日本語版)

製品	XP Professional		Vista Business	
	32 ビット	64 ビット	32 ビット	64 ビット
デザイン入力およびインプリメンテーション ツール (ISE Foundation)	○	○	○	○
ISE Simulator (ISim)	○	○	○	○
ISE WebPACK	○	○	○	○
ChipScope Pro および ChipScope Pro Serial I/O ツールキット	○	○	○	○
エンベデッド開発キット (EDK)	○	○	○	×
System Generator for DSP	○	○	○	○
ModelSim Xilinx Edition-III (MXE-III)	○	○	○	○

Red Hat Enterprise Linux

次の表は、Red Hat Enterprise Linux のサポートについて示しています。

表 2-2 : Red Hat Enterprise Linux サポート

製品	4 ワークステーション		5 デスクトップ	
	32 ビット	64 ビット	32 ビット	64 ビット
デザイン入力およびインプリメンテーション ツール (ISE Foundation)	○	○	○	○
ISE Simulator (ISim)	○	○	○	○
ISE WebPACK	○	○	○	○
ChipScope Pro および ChipScope Pro Serial I/O ツールキット	○	○	○	○
エンベデッド開発キット (EDK)	○	○	○	○
System Generator for DSP	○	○	○	○
ModelSim Xilinx Edition-III (MXE-III)	×	×	×	×

SUSE Linux Enterprise

次の表は、SUSE Linux Enterprise 10 のサポートについて示しています。

表 2-3 : SUSE Linux Enterprise 10 のサポート (英語版/日本語版)

製品	32 ビット	64 ビット
デザイン入力およびインプリメンテーション ツール (ISE Foundation)	○	○
ISE Simulator (ISim)	○	○
ISE WebPACK	○	○
ChipScope Pro および ChipScope Pro Serial I/O ツールキット	○	○
エンベデッド開発キット (EDK)	○	○
System Generator for DSP	○	○
ModelSim Xilinx Edition-III (MXE-III)	×	×

アーキテクチャ

ISE Design Suite 12 では、Virtex、Spartan、CPLD の 3 つのアーキテクチャ ファミリがサポートされます。次の表は、アーキテクチャのサポートについて示しています。

表 2-4 : アーキテクチャ サポート

	ISE WebPACK	ISE Design Suite (Logic Edition、Embedded Edition、DSP Edition、System Edition)
Virtex シリーズ	<p>Virtex-4</p> <p>LX : XC4VLX15、XC4VLX25</p> <p>SX : XC4VSX25</p> <p>FX : XC4VFX12</p> <p>Virtex-5</p> <p>LX : XC5VLX30、XC5VLX50</p> <p>LXT : XC5VLX20T、XC5VLX30T、XC5VLX50T</p> <p>FXT : XC5VFX30T</p> <p>Virtex-6</p> <p>LXT : XC6VLX75T、XC6VLX75TL</p>	<p>Virtex-4</p> <p>すべて</p> <p>Virtex-5</p> <p>すべて</p> <p>Virtex-6</p> <p>すべて</p> <p>メモ : エンベデッド開発キット (EDK) では Virtex-5 TXT はサポートされません。</p>
Spartan シリーズ	<p>Spartan-3 : XC3S50 ~ XC3S1500</p> <p>Spartan-3A : すべて</p> <p>Spartan-3AN : すべて</p> <p>Spartan-3A DSP : XC3SD1800A</p> <p>Spartan-3E : すべて</p> <p>Spartan-3L : XC3S1000L、XC3S1500L</p> <p>Spartan-6 LX : XC6SLX4 ~ XC6SLX75、XC6SLX4L ~ XC6SLX75L</p> <p>Spartan-6 LXT : XC6SLX25T、XC6SLX45T、XC6SLX75T</p> <p>XA* Spartan-3 : すべて</p> <p>XA* Spartan-3E : すべて</p> <p>XA* Spartan-3A : すべて</p> <p>XA* Spartan-3A DSP : XC3SD1800A</p> <p>XA* Spartan-6 LX : XA6SLX4 ~ XA6SLX75</p> <p>XA* Spartan-6 LXT : XA6SLX25T、XA6SLX45T、XA6SLX75T</p> <p>*ザイリンクス オートモーティブ</p>	<p>Spartan-3 : すべて</p> <p>Spartan-3A : すべて</p> <p>Spartan-3AN : すべて</p> <p>Spartan-3A DSP : すべて</p> <p>Spartan-3E : すべて</p> <p>Spartan-3L : すべて</p> <p>Spartan-6 : すべて</p> <p>XA* Spartan-3 : すべて</p> <p>XA* Spartan-3E : すべて</p> <p>XA* Spartan-3A : すべて</p> <p>XA* Spartan-3A DSP : すべて</p> <p>XA* Spartan-6 : すべて</p> <p>*ザイリンクス オートモーティブ</p>

表 2-4 : アーキテクチャ サポート

	ISE WebPACK	ISE Design Suite (Logic Edition、Embedded Edition、DSP Edition、System Edition)
CoolRunner XPLA3 CoolRunner-II XA* CoolRunner-II *ザイリンクス オート モーティブ	すべて	すべて メモ : エンベデッド開発キット (EDK) では CPLD はサポートされません。
XC9500 シリーズ	すべて (9500XV ファミリ以外)	すべて (9500XV ファミリ以外) メモ : エンベデッド開発キット (EDK) では CPLD はサポートされません。

システム要件

このセクションでは、サポートされる OS、Web ブラウザ、ケーブル インストール、システム メモリ 要件について説明します。

ISE Design Suite

ケーブル インストール要件

ザイリンクス デザイン ツールでターゲット ハードウェアをプログラムおよびコンフィギュレーションするには、ハイ パフォーマンスなケーブルである、Platform Cable USB II または Parallel Cable IV が必要です。

Platform Cable USB II をインストールする場合は、少なくとも USB 1.1 ポートが必要になります。最適なパフォーマンスには、USB 2.0 ポートで Platform Cable USB II を使用することをお勧めします。

Parallel Cable IV をインストールするには、パラレル ポート コネクタとパラレル ポート通信がサポートされるシステムが必要です。

ケーブルは、Windows XP Professional、Windows Vista Business、Redhat Linux Enterprise、SUSE Linux Enterprise 10 の 32 ビットおよび 64 ビット バージョンで公式にサポートされています。OS 別の注意点は、次を参照してください。

- **Linux すべて :** Linux にケーブル ドライバをインストールするには、ルート ディレクトリの権限が必要です。
- **SUSE Linux Enterprise 10 :** Platform Cable USB II が正しく動作するためには、fxload ソフトウェア パッケージが必要です。fxload パッケージは SUSE Linux Enterprise 10 には自動的にインストールされないため、そのユーザーまたはシステム管理者がインストールしておく必要があります。
- **Linux LibUSB サポート :** LibUSB パッケージに基づく Platform Cable USB II の暫定的なサポートは、ザイリンクスの Web サイトから入手できます。詳細については、[アンサー #25249](#) を参照してください。

ザイリンクス ケーブルに関するその他の情報は、次のマニュアルを参照してください。

- [USB ケーブル インストール ガイド \(UG344\)](#)
- [Platform Cable USB II データシート \(DS593\)](#)
- [Parallel Cable IV データシート \(DS097\)](#)

システム メモリ要件

このセクションでは、ISE Design Suite 12 を使用するのに必要な RAM および仮想メモリについて説明します。

次のリンク先の表は、標準的なデザインに必要なシステム要件を示しています。ただし、実際に必要なリソースはデザインによって異なります。デザインの複雑さや制約により、インプリメントに必要なメモリ容量は異なるため、システム リソースを必ず確認し、必要であればメモリを追加してください。メモリ要件の詳細は、次を参照してください。

<http://japan.xilinx.com/ise/products/memory.htm>

OS と使用可能なメモリ

Microsoft Windows および Linux OS のアーキテクチャ場合、ザイリンクス プログラムに使用できるメモリの最大容量に制限があり、大規模デバイスおよび複雑なデバイスを作成する際に問題となることがあります。ISE Design Suite 12.1 には最適化メモリが含まれており、ザイリンクス ソフトウェア用に RAM を増加できるようになっています。

Windows XP Professional 32 ビット

ザイリンクス アプリケーションでは、Windows 32 ビットでメモリ増加機能が取り入れられるようになっていますが、ユーザーの方でもより大規模なメモリを使用できるように Windows 設定を変更する必要があります。

標準の Windows では、ザイリンクスのプロセスに使用できる最大メモリ容量は 2GB ですが、Windows XP Professional の場合は、RAM を 3 GB まで増加できるようになっています。ISE にはこのオプションがビルトインされていますが、Windows XP OS にも修正を加えないと、メモリは拡張できません。拡張するには boot.ini ファイルの startup ラインの終わりに /3GB を追加する必要があります。

ザイリンクス アプリケーションで 3GB サポートを使用する前に、マイクロソフトのサポート技術情報 (<http://support.microsoft.com/?kbid=328269>) を参照してください。Windows XP サービスパック 1 にアップグレードし、/3GB オプションを使用する場合、マイクロソフトからのパッチをインストールしていないとマシンを再起動できません。詳細は、ザイリンクス [アンサー #17905](#) を参照してください。

変更を加える前に、次を参照してください。

- 4GT RAM チューニングのアプリケーション使用については、マイクロソフトのサポート技術情報 Q17193 (<http://support.microsoft.com/default.aspx?scid=kb;en-us;Q171793>) を参照してください。
- boot.ini ファイルの修正方法については、マイクロソフトのサポート技術情報 Q289022 (<http://support.microsoft.com/default.aspx?scid=kb;en-us;q289022>) を参照してください。

Linux

ISE Design Suite 12 では、Linux 32 ビットとメモリ アロケーションの大きい Linux 64 の両方がサポートされます。Linux カーネルを変更すると、ザイリンクス アプリケーションで 3GB 以上のメモリを使用できるようになります。

32 ビットの Red Hat Enterprise Linux では、大規模メモリのカーネルを使用して各プロセスに 4GB 割り当てることができます。詳細については、Red Hat のサポート サイト (<http://www.redhat.com/docs/manuals/enterprise/>) を参照してください。

ISE では、メモリ アロケーションの大きい 64 ビットの Red Hat Enterprise Linux もサポートされます。

装置とアクセス権

次の表は、関連装置、アクセス権、ネットワーク接続の条件を示しています。

表 2-5: 装置とアクセス権の要件

項目	必要条件
ディレクトリのアクセス権	編集するデザイン ファイルが含まれるディレクトリすべての書き込み権が必要です。
モニタ	解像度 1024x768 ピクセル以上の 16 ビット カラー VGA をお勧めします。
駆動電力	ISE Design Suite には DVD-ROM (Web からのダウンロードではなく、DVD を請求してインストールする場合)、MXE には CD-ROM が必要です。
ポート	<p>デバイスのプログラムには、ザイリンクス プログラム ケーブル用にパラレル ポート、USB ポートのいずれかが必要です。ポートの仕様については、ケーブルのマニュアルを参照してください。</p> <p>メモ : ケーブル ドライバ ソフトウェアのインストールには、Windows XP Pro SP1 (またはそれ以降) または Windows Vista Business が必要です。これらの OS を使用していない場合、ケーブルが正しく動作しないことがあります。</p>

メモ : Exceed、ReflectionX、XWin32 のような X サーバー / リモート デスクトップ サーバーはサポートされません。

ネットワーク時刻の同期化

ソフトウェアがインストールされたコンピュータとは別のネットワーク コンピュータにユーザーのデザイン ファイルを保存する場合、どちらのコンピュータも同時刻に設定する必要があります。ソフトウェアのファンクションを最適にするため、時刻は定期的に合わせてください。

ChipScope Pro

ケーブル インストール要件

Linux の場合、ルート ディレクトリの権限がないとケーブル ドライバをインストールできません。USB 2.0 ポート用に Platform Cable USB II をインストールする場合は、Windows XP SP2 以降を使用する必要があります。Platform Cable USB II は、ユーザー ハードウェアに接続されるハイパフォーマンスのダウンロード ケーブルで、ChipScope Pro Analyzer ツールを使用してデバイスのプログラム、コンフィギュレーション、デバッグを実行します。

システム メモリ要件

ChipScope Pro Analyzer には、1024MB のシステム メモリが必要です。ChipScope Pro Core Inserter ツールのメモリ要件は ISE と同じです。ISE で推奨されるメモリ容量の詳細は、<http://japan.xilinx.com/ise/products/memory.htm> を参照してください。

System Generator for DSP のシステム要件

推奨ハードウェア

表 2-6 : System Generator for DSP の推奨ハードウェア

推奨	メモ
2.00 GB の RAM	
600MB のハード ディスク容量	最低必要条件
ザイリンクス ハードウェア協調シミュレーション プラットフォーム	ハードウェア協調シミュレーション フローに必要

OS とソフトウェア要件

表 2-7 : System Generator for DSP の OS およびソフトウェア要件

必要条件	メモ
Windows XP Professional SP2、32 ビット/64 ビット または Windows Vista Business SP1、32 ビット/64 ビット または Red Hat Linux 4u7、32 ビット & 64 ビット	
ザイリンクス ISE Design Suite 12	
MathWorks MATLAB バージョン 2009a または 2009b	
MathWorks Simulink (Fixed-Point Toolbox 含む) バージョン 2009a または 2009b	MATLAB のインストール ディレクトリのパス名には、C:\MATLAB\R2009b のように、スペースを含まない名前を使用する必要があります。 53 ビットより大きい信号には Fixed-Point Toolbox が必要です。

ダウンロードおよびインストール

この章では、ISE Design Suite 12 および ModelSim ザイリンクス版 6.5c のダウンロードおよびインストール方法について説明します。含まれるセクションは、次のとおりです。

- 「ISE Design Suite 12 のダウンロード」
- 「ISE Design Suite 12 のインストール (全 OS 共通)」
- 「OS 別インストール手順」
- 「インストール フロー」
- 「USB FLEXid ドングル ドライバのインストール」
- 「ネットワーク インストール」
- 「バージョン 12 のアップデートの取得」
- 「ISE Design Suite 12 のアンインストール」
- 「ModelSim ザイリンクス版 6.5c のインストール (Windows のみ) - オプション」

ISE Design Suite 12 のダウンロード

このセクションでは、ISE Design Suite 12 のダウンロード方法を説明します。

まず、インターネット ブラウザを起動し、<http://japan.xilinx.com/support/download/index.htm> にアクセスします。

ザイリンクス ダウンロード センタのファイルはすべて Akamai ダウンロード マネージャを使用してダウンロードされます。ダウンロード前に、次を設定しておくことをお勧めします。

- ◆ <http://www.entitlenow.com> からのポップアップを許可する
- ◆ 保護されている項目もされていない項目も同じページに表示されるようにセキュリティ設定をする
- ◆ Java をインストールして Akamai マネージャを実行できるようにする

ISE ソフトウェアをダウンロードするには

1. Web サイトで [デザイン ツール] タブをクリックします。
2. ダウンロードするツールのバージョンをクリックします。
3. ダウンロードするインストーラのリンクをクリックします。

メモ : 12.x では、ISE Design Suite のインストーラーでも、ソフトウェア開発キットやラボ ツールのみをインストールできるようになっています。ISE Design Suite のインストーラをダウンロードする場合は、これらの個別のインストールプログラムをダウンロードする必要ありません。

4. ユーザー ID とパスワードを入力し、ザイリンクス アカウントにログインします。

メモ：ザイリンクス アカウントをお持ちでない場合は、アカウントを作成してください。

住所を確認する画面が表示されます。

5. 住所を確認し、[次へ] をクリックします。
6. Akamai ダウンロード マネージャがブラウザ内で起動され、ダウンロード プロセスが実行されます。

ザイリンクス ダウンロード センタのファイルのほとんどは TAR を使用して圧縮されており、解凍にはサードパーティ プロバイダのソフトウェアが必要になります。どのソフトウェアを使用するかは、各企業の IT 部門にお尋ねください。TAR ファイルによく使用されるソフトウェアには、7-ZIP、GNU ビルトイン ツール、WinZIP、WinRar などがあり、それぞれのプロバイダで開発されています。ザイリンクスでは関与しておりません。ザイリンクスでは、これらの提案されるソフトウェア ツールに関して、市販性、特定目的との適合性、不侵害などの点を含め、明示黙示を問わず一切保証も表明もいたしません。

ISE Design Suite 12 のインストール (全 OS 共通)

このセクションでは、すべての OS に共通する ISE Design Suite 12 のインストール方法を示します。各 OS でインストールを始める前に、次を実行してください。

1. ソフトウェアをインストールするシステムに適切な権限があることを確認します。プログラム ケーブル デバイス ドライバなどのコンポーネントには、管理者権限の必要なものもあります。
2. インストールを開始する前に、すべてのプログラムを終了します。
3. システムが必要条件を満たしているかどうかは、第 2 章「OS、アーキテクチャ サポート、システム要件」でご確認ください。
4. システムまたは製品オプションに伴うインストールの問題については、第 1 章「12.1 の新機能、リリース ノートおよび既知の問題」を参照してください。
5. ディレクトリ パスにスペースが含まれると、EDK がインストールされない可能性があるので、ご注意ください。

メモ：ISE Design Suite 12 の イン ス ト ーラ は、Windows で XILINX の よう な グローバル環境変数を設定しません。ザイリンクスソフトウェアの実行方法については、「OS 別インストール手順」でご確認ください。

OS 別インストール手順

このセクションでは、ISE Design Suite 12 のインストール方法を OS 別に説明します。

Microsoft Windows

このセクションでは、Microsoft Windows でのインストール方法を示します。

インストールの開始方法

インストールの開始方法は、インストール プログラムの取得方法によって異なります。詳細は、「[ISE Design Suite 12 のダウンロード](#)」を参照してください。

- インストール ファイルをダウンロードした場合は、そのファイルを解凍し、含まれる **xsetup.exe** プログラムを実行します。
- ISE Design Suite の DVD を請求した場合は、その DVD をドライブに入れます。インストールが自動的に始まるはずですが、始まらない場合は、Windows Explorer から DVD ディレクトリの **xsetup.exe** を実行します。

環境変数の設定方法

インストールが終了すると、環境変数バッチ ファイルが作成されます。デスクトップやプログラム グループなどのショートカットをクリックすると、アプリケーションが起動される前にこのファイルが呼び出されます。この環境を設定するコマンド ライン プロンプトへのショートカットは自動的に作成されます。このショートカットは、[Xilinx ISE Design Suite 12.1] → [アクセサリ] → [ISE Design Suite コマンド プロンプト] にあります。

make または script ファイルで環境変数を設定するには、次の手順に従ってください。

スクリプトに **<XILINX installation directory>\settings32.bat** または **settings64.bat** を追加します。インストールされた OS のビット幅に応じて、32 か 64 を選んでください。

Linux

このセクションでは、Linux でのインストールの起動および環境変数の設定方法について説明します。

インストールの開始方法

インストールの開始方法は、インストール プログラムの取得方法によって異なります。詳細は、「[ISE Design Suite 12 のダウンロード](#)」を参照してください。

- インストール ファイルをダウンロードした場合は、そのファイルを解凍し、含まれる **xsetup** プログラムを実行します。
- ISE Design Suite の DVD を請求した場合は、その DVD をドライブに入れます。ファイル マネージャでセットアップ ファイルをクリックするか、DVD ドライブを参照し、**./xsetup** と入力します。

環境変数の設定方法

インストールが終了すると、環境変数ファイルが作成されます。

1. XILINX インストール ディレクトリに移動します。
2. ザイリンクス インストール ディレクトリで、シェルによって **source settings32.(c)sh** または **source settings64.(c)sh** と入力します。

環境変数を手動で設定するか、ユーザーのセットアップ スクリプトから設定する場合は、上記の環境変数ファイルの設定をコピーすることをお勧めします。ザイリンクス環境変数設定は、OS によって異なります。

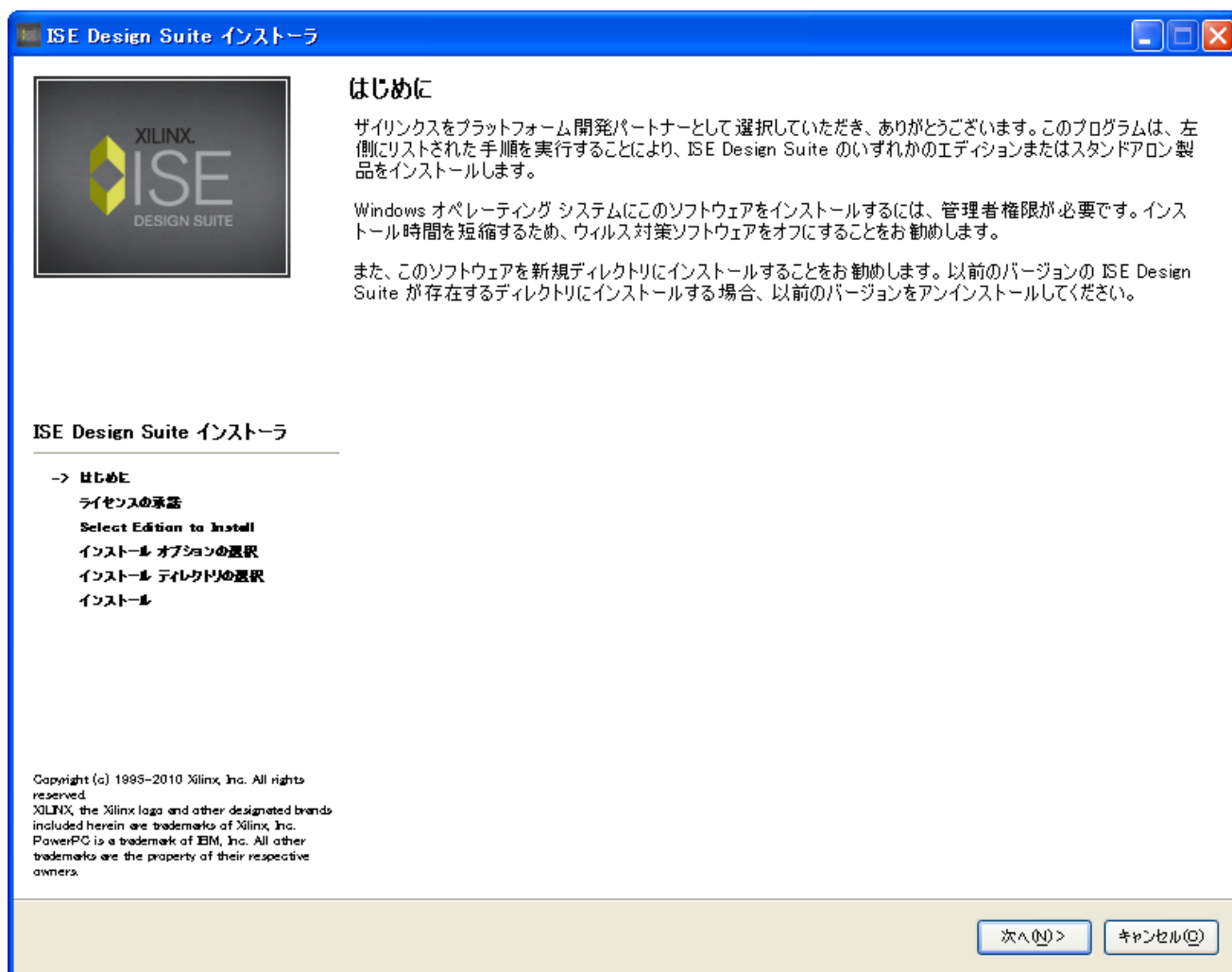
インストール フロー

このセクションでは、インストール プロセス中に表示される主な画面について説明します。

メモ： インストール画面でチェック ボックスのあるテキスト部分をクリックすると、画面下の [説明] フィールドにその詳細が表示されます。

はじめに

最初の画面が表示されたら、[次へ] をクリックします。



ソフトウェア ライセンスの承諾

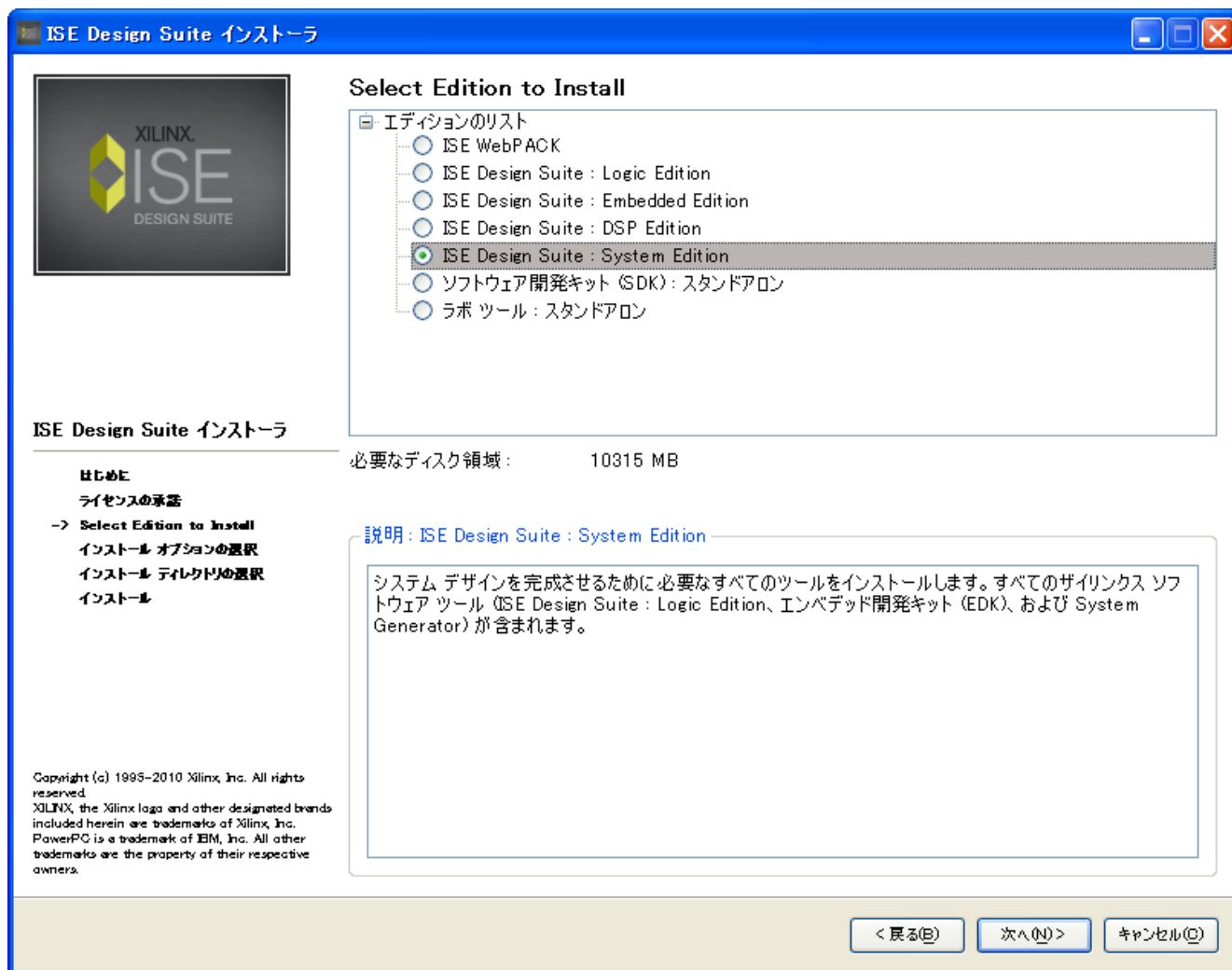
最初の画面の後は、次のような 2 つのソフトウェアライセンスの承諾を求める画面が表示されます。

1. どちらの画面でも [ソフトウェア ライセンスの条項を承諾] をオンにし、[次へ] をクリックします。



インストールするザイリンクス製品の選択

次の図は、インストールするザイリンクス製品を選択する画面です。



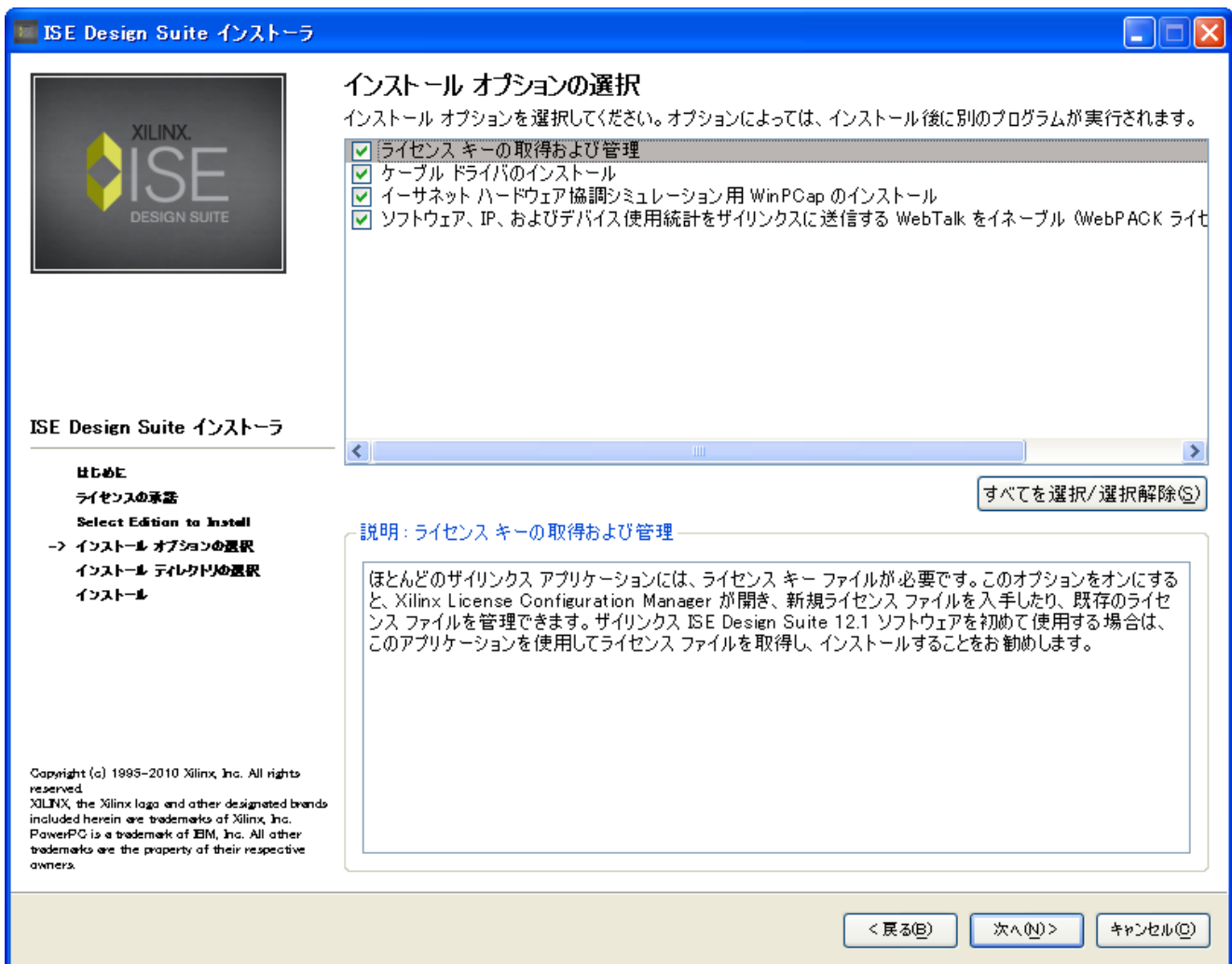
ISE Design Suite 12.1 では、WebPACK、さまざまな ISE Design Suite のエディション、2 つのスタンドアロン ツールがインストールできます。

メモ： ISE WebPACK のインストーラを実行すると、ChipScope Pro とエンベデッド開発キット (EDK) の両方がインストールされますが、これらのツールは別にライセンスを取得しないと使用できません。

インストール オプションの選択

インストール プロセス中には、複数のオプションのインストール手順が実行可能です。これらのオプションは、主なソフトウェア インストールが終了した後、プロセスの最後にインストールされます。オプションの中には、ダイアログ ボックスが表示され、ユーザーが反応するまでインストーラを停止してしまうものもあります。

次の図は、インストール オプションを選択する画面です。

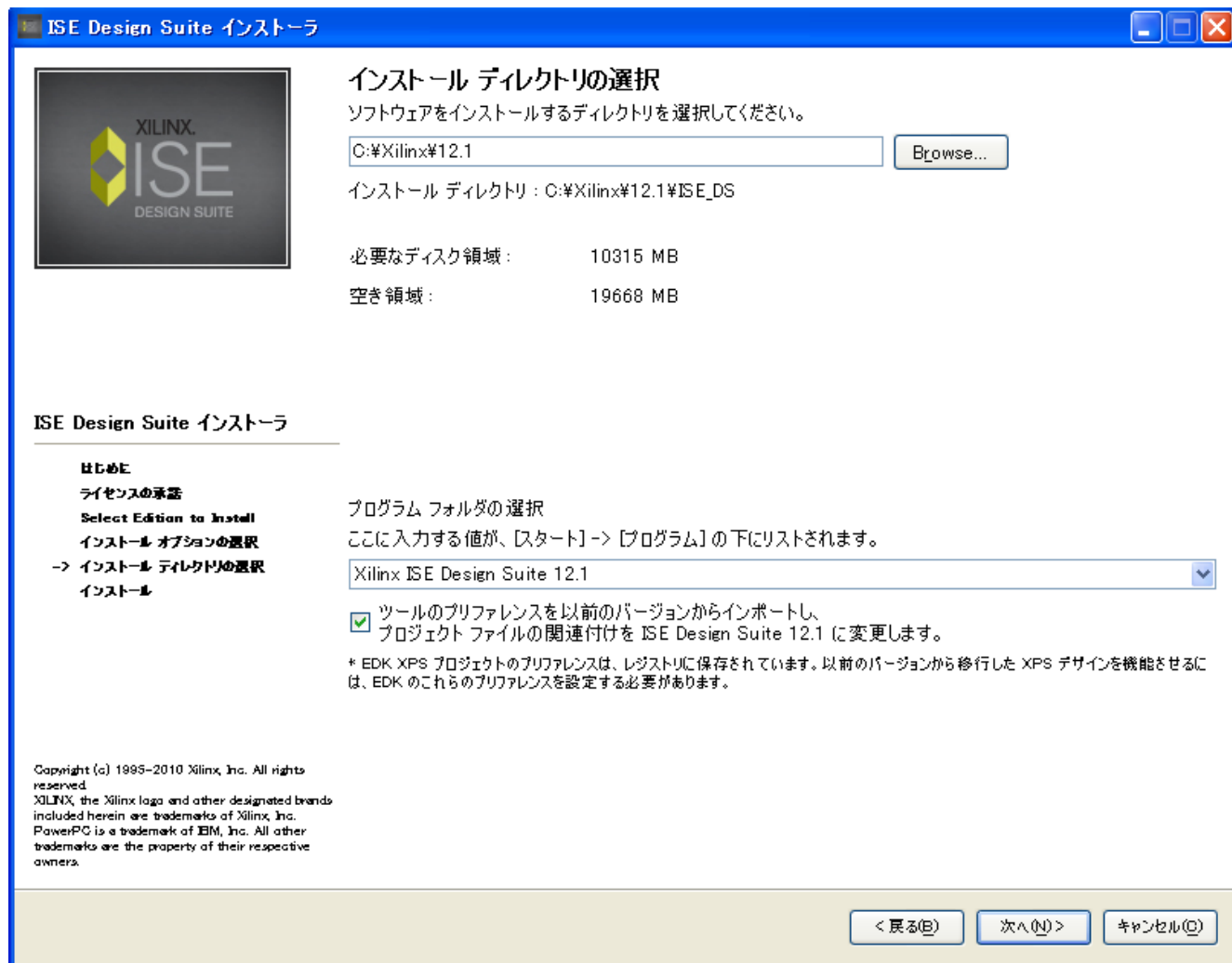


メモ：WebPACK の場合、WebTalk は常にオンになります。前の画面で ISE WebPACK を選択した場合は、[WebTalk をイネーブル] オプションは選択できないようになります。Edition 製品をインストールした場合は [WebTalk をイネーブル] をオフにすることができますが、デザインのプロセスに WebPACK ライセンスが使用される場合は、[WebTalk をイネーブル] のプリファレンスは無視されます。詳細については、インストーラで [WebTalk をイネーブル] をクリックして、説明をお読みください。

インストール ディレクトリの選択

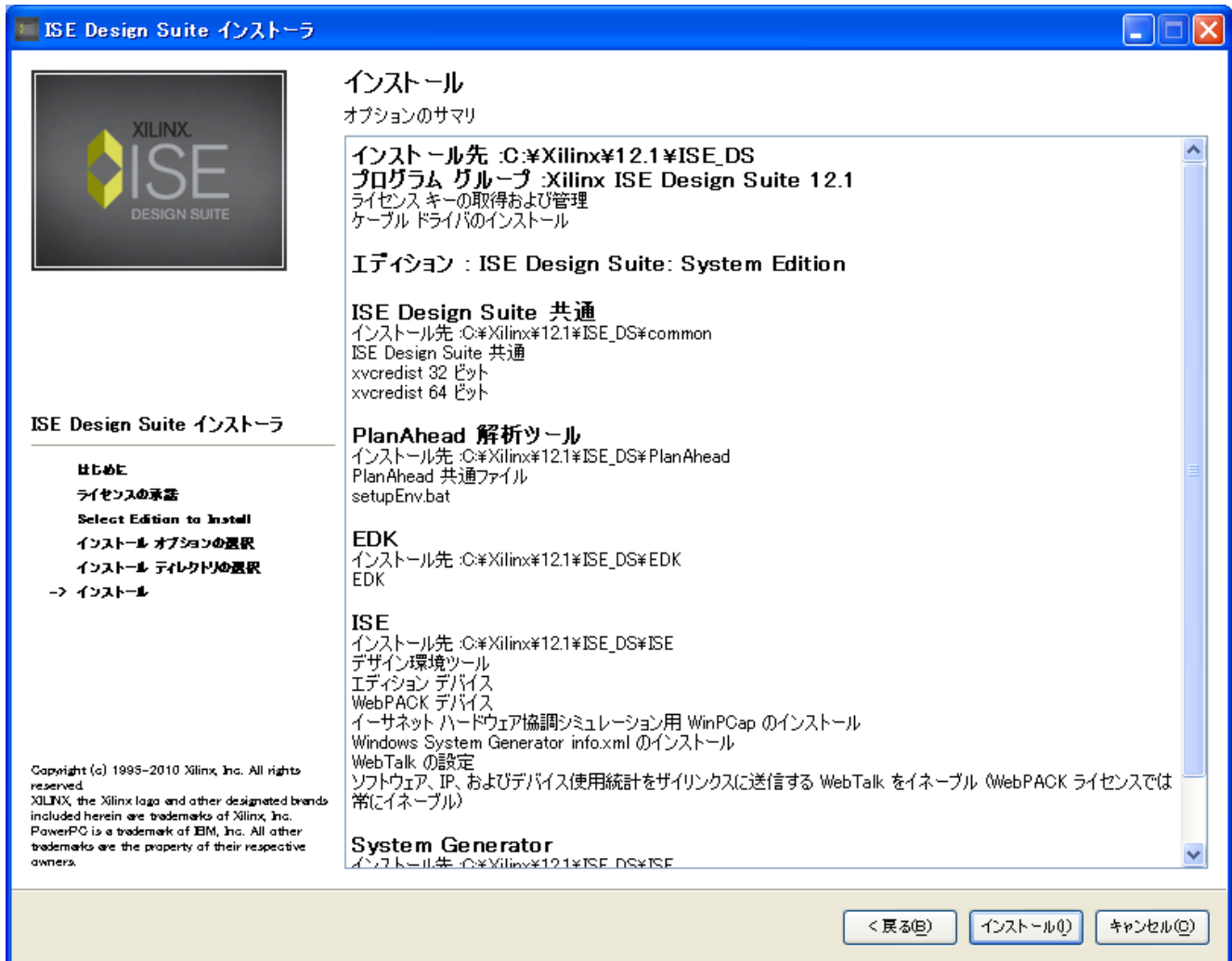
[インストール ディレクトリの選択] 画面では、ソフトウェアのインストール先とプログラム フォルダのリストに表示される名前を入力します。指定したインストール パスの下には、階層が 1 レベル追加されます。このディレクトリ名は、インストールする製品によって異なります。Edition や WebPACK をインストールする場合、ディレクトリ名は \ISE_DS に、ラボ ツールをスタンドアロンでインストールする場合は \LabTools、SDK をスタンドアロンでインストールする場合は \SDK になります。これにより、ハード ドライブに Edition ツールとスタンドアロン ツールが共存できるようになります。

メモ：インストール ディレクトリとプログラム フォルダに日本語は使用できません。



インストール オプションのサマリ

[インストール オプションのサマリ] 画面では、インストールするツール、製品、オプションのサマリが表示されます。変更する場合は、[戻る] ボタンをクリックして、該当画面で変更してください。インストールを開始する場合は、[インストール] をクリックします。



インストール プロセスの最後に Xilinx License Configuration Manager がデフォルトで開きます。画面の指示に従って、ライセンス ファイルを取得または指定します。

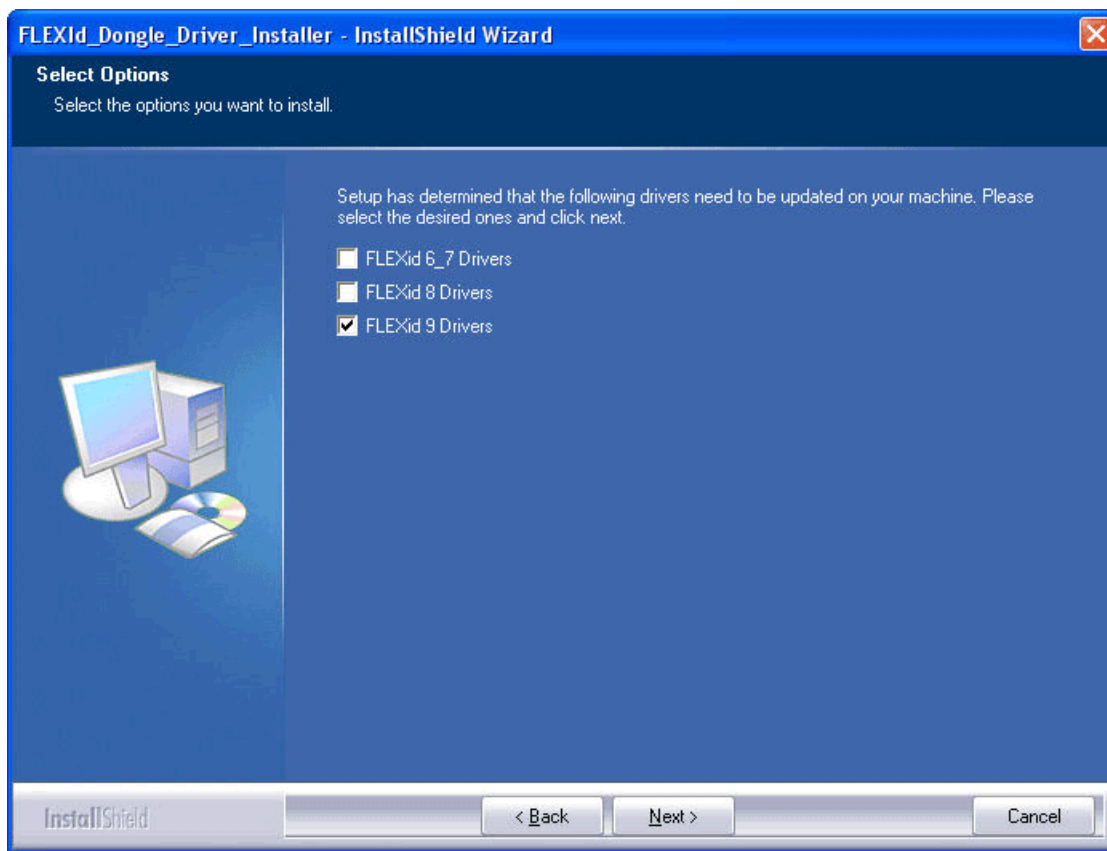
メモ : EDK には、Red Hat の Cygwin ツールが必要です。このツールは、EDK をインストールするとコピーされます。

USB FLEXid ドングル ドライバのインストール

Windows OS 用の USB FLEX ID ドングルを購入した場合は、FLEXnet ライセンスを生成する前に最適なドライバをインストールしておく必要があります。

1. まずザイリンクス ISE Design Suite 12.1 をインストールします。これには、USB FLEXid ドングルドライバのインストーラが含まれます。

2. <Xilinx Installation Directory>\12.1\ISE_DS\ISE\bin\nt の **FLEXid_Dongle_Driver_Installer.exe** を実行します。
3. [Select Options] の画面で [FLEXid 9 Drivers] のみを選択します。



4. [Next] を 2 回クリックすると、ドライバがインストールされます。

インストールが終了すると、再起動するかどうかを尋ねる画面が表示されます。dongle が正しく機能するには、再起動をする必要があります。

ネットワーク インストール

ネットワーク上にソフトウェアをインストールすると、そのネットワーク ドライブのソフトウェアに複数のクライアント マシンからアクセスできます。ネットワーク上のソフトウェアを使用する場合、環境変数、レジストリ、プログラム グループなどすべてにネットワークのディレクトリが指定されている必要があります。このセクションでは、ネットワーク設定の手順について説明します。

UNIX クライアント

ソフトウェアがインストールされた `$XILINX` ディレクトリの `settings32.(c)sh` または `settings64.(c)sh` (使用している OS によって異なる) を `source` コマンドで実行します。これらのシェルを使用すると、ザイリンクスの環境変数、パス、`LD_LIBRARY_PATH` 変数にインストール ディレクトリが指定されます。

ネットワーク上のインストール ディレクトリからアプリケーションを実行するには、**X Windows Display Manager** を起動し、`DISPLAY` 環境変数を設定する必要があります。`DISPLAY` はモニタの名前として定義します。`DISPLAY` は通常 `unix:0.0` です。たとえば、次の構文は `bigben` というホスト上のソフトウェアを実行し、`mynode` というクライアント マシンのモニタにグラフィックを表示します。

```
setenv DISPLAY mynode:0.0
xhost = bigbenPC Clients
```

Microsoft Windows クライアント

1. ISE ソフトウェア ツールを PC ネットワーク サーバーにインストールします。この場合、ユーザーがソフトウェアのインストール ディレクトリの場所を知っていること、またユーザーにそのディレクトリへのアクセス権があることを確認してください。
2. ネットワーク上の `<network_install_location>\common\bin\nt` ディレクトリにある `shortcutSetup.bat` ファイルを実行します。
このプログラム ファイルを実行すると、リモート ロケーションからザイリンクス ツールを実行するのに便利なプログラム グループやデスクトップ ショートカットが設定されます。
3. ローカル マシンから ISE ツールを起動するには、[スタート] → [プログラム] から該当するツールを選択するか、デスクトップのショートカットをダブルクリックします。

割り当てたネットワーク ドライブへのインストール

ザイリンクス ソフトウェアは、ルート ディレクトリの下フォルダ (`C:\Xilinx`) にインストールされるように設定されています。ネットワーク ドライブにインストールする場合にサブディレクトリを定義しないと、このローカルのルート ディレクトリにインストールされるように指定されてしまいます。

この問題を回避するには、ネットワーク ディレクトリの下にインストール ディレクトリ `\Xilinx` を作成します (例: `N:\Xilinx`)。

バージョン 12 のアップデートの取得

ザイリンクスでは、四半期ベースで **ISE Design Suite 12** のアップデート バージョンをリリースする予定です。アップデートには、デバイス サポートのアップデート、新機能、バグ修正などが含まれます。これまでのリリースと異なり、**ISE Design Suite 12** の四半期リリースはフル バージョンでリリースされます。たとえば、12.1 から 12.3 へのアップデートはできません。12.3 のインストーラは完全な 12.3 バージョンをターゲット マシンの別のディレクトリにインストールします。このセクションでは、`XilinxNotify` やダウンロード センタからソフトウェア アップデートを入手する方法について説明します。

XilinxNotify

XilinxNotify ツールは、推奨されるソフトウェア アップデートの入手方法で、次のような機能があります。

- <http://www.xilinx.com/support> にリリースされている最新のザイリンクス ソフトウェア アップデートとインストールされているバージョンを比較し、より新しいバージョンが利用可能かどうかを通知します。

[Download] ボタンをクリックすると、ブラウザが起動され、ザイリンクス ダウンロード センタにログインする画面が表示されます。ログインしたら、選択した製品のダウンロードが開始されます。XilinxNotify は、次のいずれかの方法で使用できます。

- Project Navigator の [Help] → [Check for Updates] をクリック
- [スタート] → [プログラム] → [Xilinx ISE Design Suite 12.1] → [アクセサリ] → [アップデートのチェック] を順にクリック
- Linux シェルで `xilinxnotify` と入力

メモ：Project Navigator で [Edit] → [Preferences] → [XilinxNotify] をクリックして表示されるページでは、Project Navigator の起動時にアップデートがチェックされる頻度を設定できます。

ダウンロード センタ

ソフトウェア アップデートは、ダウンロード センタに定期的にアップロードされます。

<http://japan.xilinx.com/support/download/index.htm>

ISE Design Suite 12 のアンインストール

Microsoft Windows

このセクションでは、Microsoft Windows で ISE Design Suite に含まれる製品をアンインストールする方法について説明します。

ザイリンクス製品をアンインストールするには、まずその製品を [スタート] メニューから選択します。ISE WebPACK または ISE Design Suite の Edition をアンインストールするには、[スタート] → [プログラム] → [Xilinx ISE Design Suite 12.1] → [アクセサリ] → [アンインストール] をクリックします。

インストールしたプログラムによっては、WinPcap 4.0 のような補助アプリケーション (DSP ツールのオプション コンポーネント) もアンインストールする必要があります。

アンインストールする場合、ザイリンクス インストール ディレクトリからプロジェクト ファイルを移動しておかないと、削除されてしまいます。

Linux

ザイリンクスの Design Suite 製品をアンインストールするには、シェルでザイリンクス インストール ディレクトリを削除します。

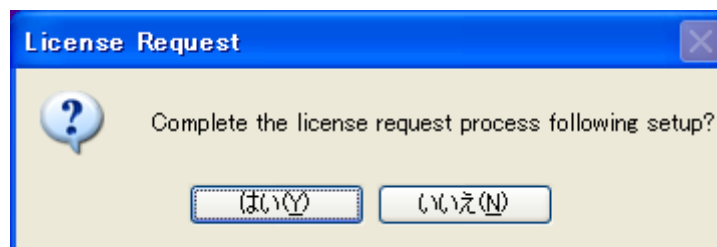
ModelSim ザイリンクス版 6.5c のインストール (Windows のみ) - オプション

ModelSim ザイリンクス版 (MXE) 6.5c を既にご購入済みの場合は、MXE をインストール後に登録すると、ライセンス ファイルが送付されます。MXE に関する製品および購入情報は、最寄りの販売代理店にお問い合わせになるか、次のザイリンクス Web サイトをご覧ください。

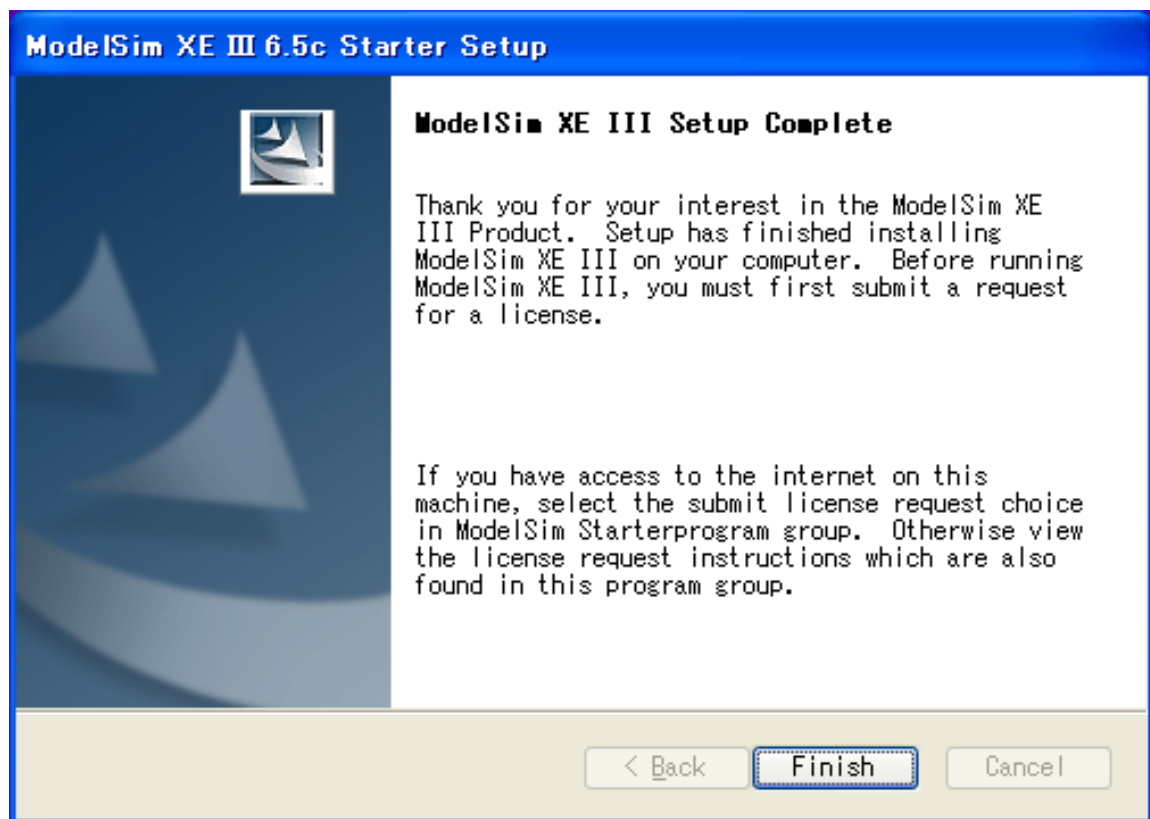
http://japan.xilinx.com/ise/optional_prod/mxe.htm

MXE をインストールするには、次の手順に従います。

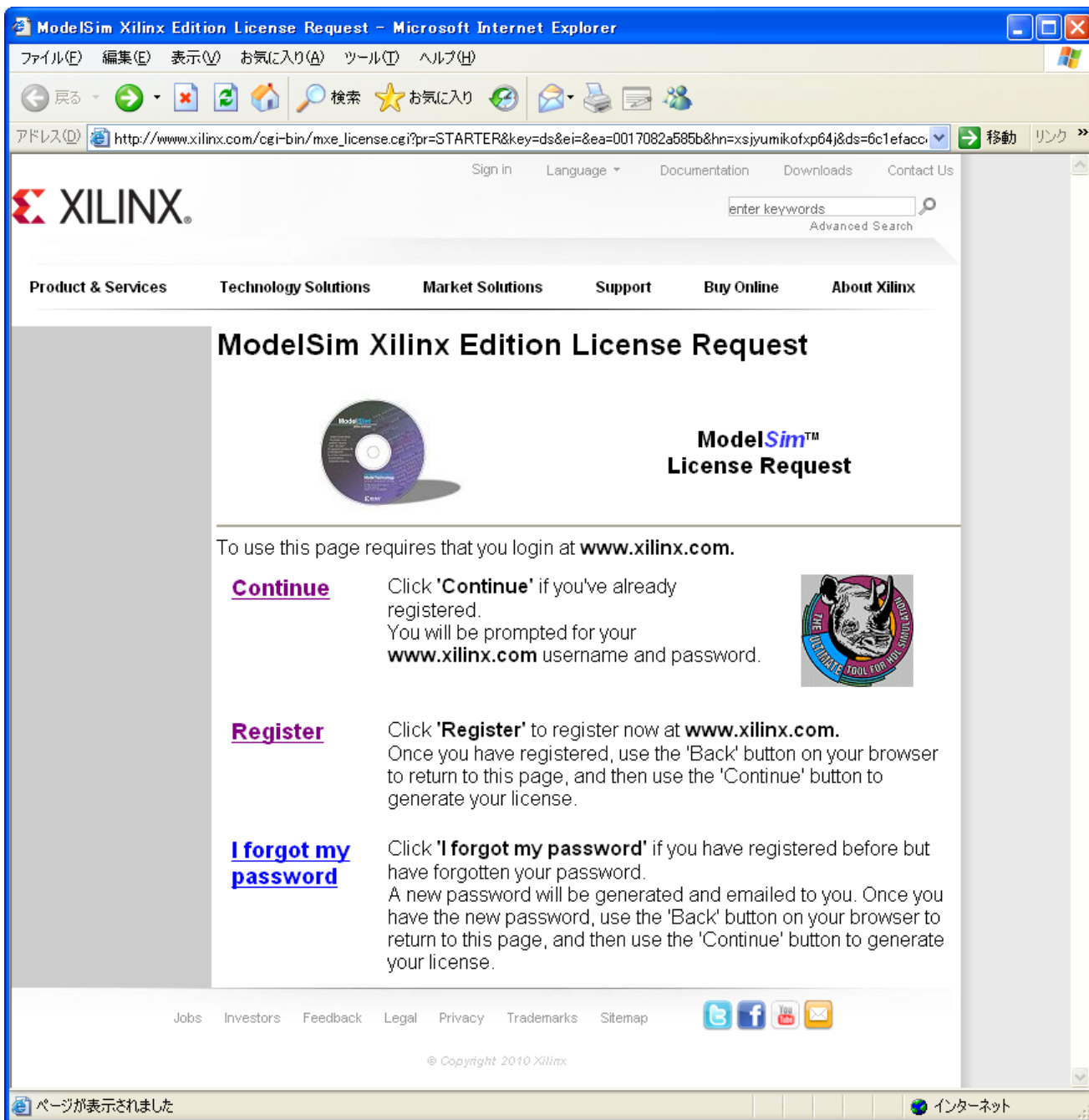
1. ModelSim ザイリンクス版の CD を挿入します。
2. 開始されない場合は、[スタート] → [ファイル名を指定して実行] をクリックし、D:\setup.exe (DVD ドライブが D:\ の場合) と入力します。
3. 指示に従って、インストールを開始します。
4. インストールの最後に、以下のメッセージが表示されるので [はい] を選択します。




5. [Finish] をクリックします。



6. ライセンス請求フォームがブラウザに表示されます。ザイリンクスユーザーアカウントをお持ちの場合は、[Continue] をクリックし、サインインページからログインしてください。ザイリンクスユーザーアカウントをまだ作成していない場合は、[Register] をクリックし、サインインページの [Create Account] ボタンをクリックし、アカウントを作成してください。




7. ログイン後、Xilinx Edition Starter License Request ページが表示されますので、必要事項をご確認の上、[Submit] ボタンをクリックします。



ModelSim™ Xilinx Edition - Starter License Request

Thank you for choosing to use the **ModelSim™ Xilinx Edition** simulator. Please fill out the following information and your license will be e-mailed to you within a few minutes.



WARNING: Please use caution when registering this license.

- ▶ The license will **ONLY** be sent by email.
- ▶ Please verify your email address.
- ▶ Please be sure that you can receive an attachment named 'license.dat'
- ▶ Please be sure you can accept email from mx_e_distribution@xilinx.com

Product :	STARTER,	Xilinx Edition - Starter.
HostID:	0cc9fc05,	Disk SerialNumber.
*First Name:	<input type="text" value="Ichiro"/>	
*Last Name:	<input type="text" value="Suzuki"/>	
Title:	<input type="text"/>	
*Company:	<input type="text" value="Xilinx, inc"/>	
*Address:	<input type="text" value="Art Village Osaki Central Tower 4F"/>	
	<input type="text" value="1-2-2 Osaki, Shinagawa-ku"/>	
*City:	<input type="text" value="Tokyo"/>	*State/Region: <input type="text" value="Tokyo"/>
*Post/Zip:	<input type="text" value="141-0032"/>	*Country: <input type="text" value="Japan"/>
*Phone:	<input type="text" value="81-3-6744-7777"/>	Fax: <input type="text"/>
*E-mail:	<input type="text" value="ichiro.suzuki@xilinx.com"/>	

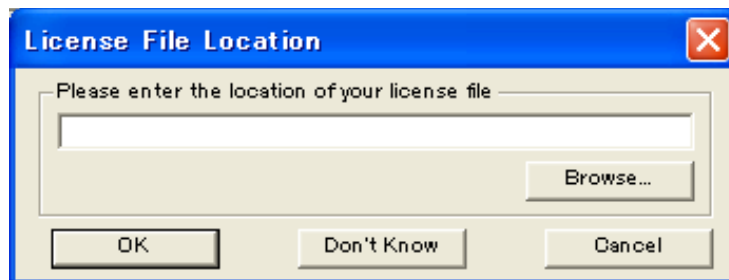
* Fields marked with asterisk (*) are **required**.
Please note that the license will be emailed to the address above, so it must be valid.

8. ライセンス ファイルが電子メールでお手元に送信されます。

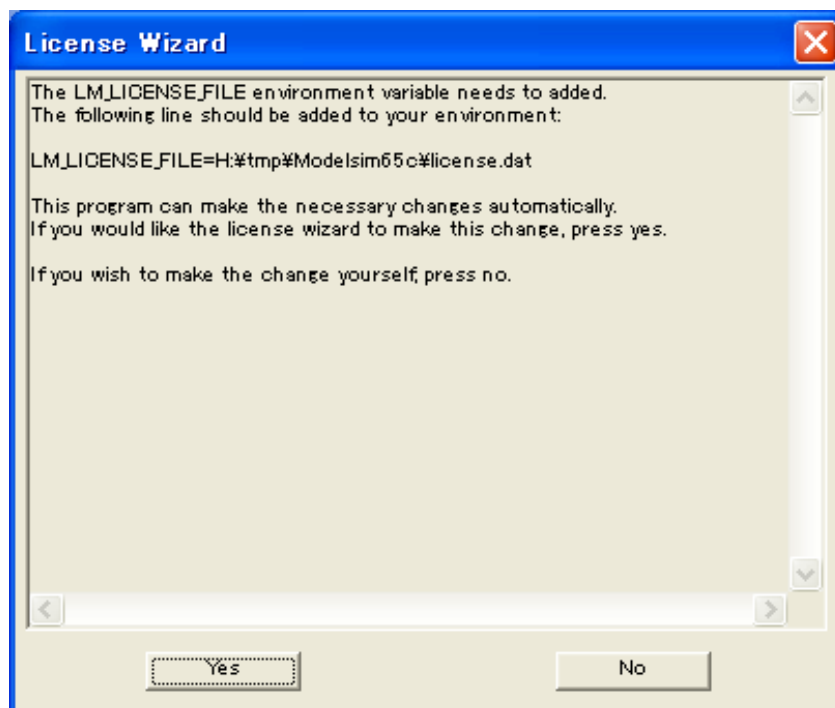
9. ライセンスファイルを保存し、プログラムグループから [License Wizard] を起動後、[Continue] をクリックします。



10. [License File Location] で保存したファイルを指定し、[OK] をクリックします。



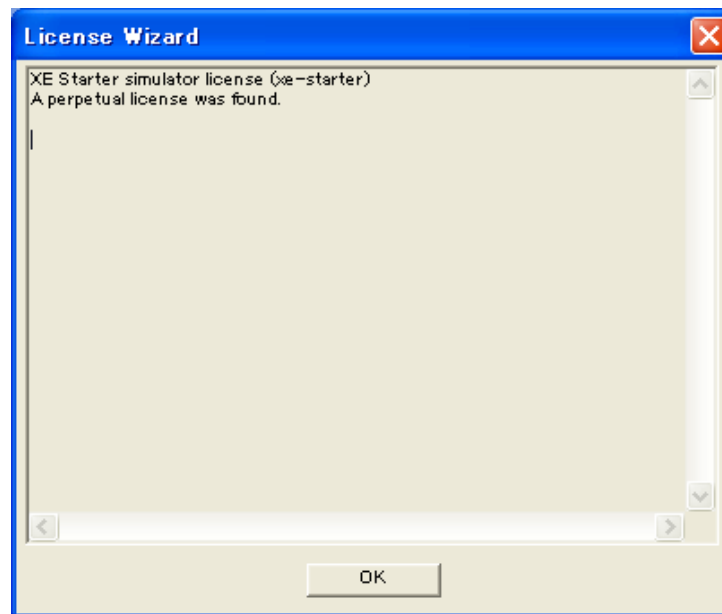
11. [Yes] をクリックすると、LM_LICENSE_FILE 環境変数が自動的に設定されます。



12. 環境変数が設定された確認メッセージがでます。[OK] をクリックします。



13. 再度 [License Wizard] を起動し、[Continue] をクリックした後、[License File Location] でファイルの保存場所を確認します。次のダイアログボックスが表示され、ライセンスの設定が完了します。



送信されたライセンスファイルの内容は、既存の `license.dat` ファイルに切り取って貼り付けることもできます。

メモ：MXE は、Xilinx Platform Studio ではサポートされないシミュレータです。

ライセンスの取得および管理

ザイリンクスの製品ライセンス (Product Licensing) サイトからは、ザイリンクス ソフトウェアおよび IP 製品のダウンロード、ライセンス、評価などのオンライン サービスを利用できます。この章では、製品ライセンス サイトの FLEXnet ライセンス生成機能について説明しています。含まれるセクションは、次のとおりです。

- 「製品ライセンス サイトへのアクセス」
- 「製品ライセンスのアカウント」
- 「ユーザー タイプとアクション」
- 「ライセンス ファイルの生成」
- 「ライセンス ファイルの管理」
- 「ユーザー アクセスの管理」
- 「ライセンス キー ファイルのインストール」

製品ライセンス サイトへのアクセス

製品ライセンス (Product Licensing) サイトには、生成するライセンスの種類によってさまざまな方法でアクセスできます。

- 製品を購入した場合は、注文確認の電子メールに含まれるリンクをクリックします。このリンクをクリックすると、購入した製品の権利情報を含むアカウントに直接アクセスできます。
- ISE Design Suite 12 製品を評価する目的の場合は、http://japan.xilinx.com/ise_eval にアクセスします。
- IP 製品を評価する場合は、<http://japan.xilinx.com/ipcenter> の該当する IP 製品ページの [IP 評価] リンクをクリックします。
- 製品ライセンス サイトには、<http://japan.xilinx.com/getproduct> から直接アクセスできます。

Sign in to Xilinx

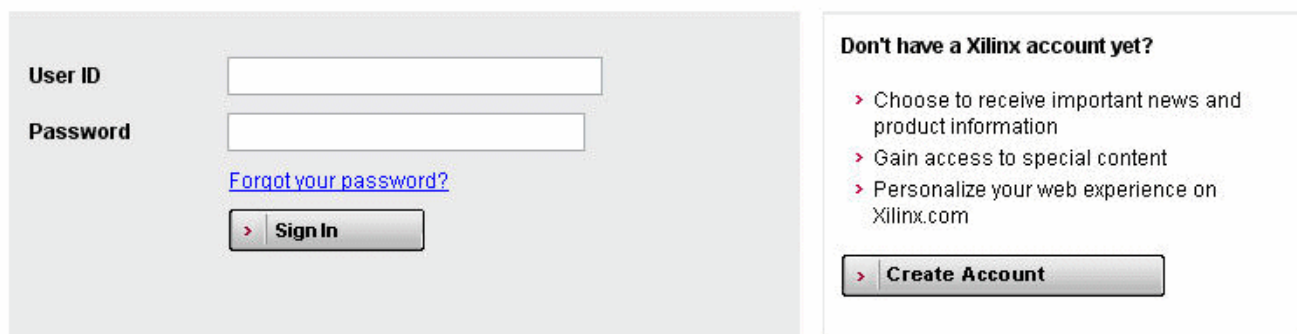
The image shows the Xilinx sign-in page. On the left, there is a form with two input fields: 'User ID' and 'Password'. Below the 'Password' field is a blue link that says 'Forgot your password?'. At the bottom of the form is a button with a right-pointing arrow and the text 'Sign In'. To the right of the form, there is a section titled 'Don't have a Xilinx account yet?'. This section contains three bullet points: 'Choose to receive important news and product information', 'Gain access to special content', and 'Personalize your web experience on Xilinx.com'. At the bottom of this section is a button with a right-pointing arrow and the text 'Create Account'.

図 4-2：サインイン ページ

まず、ザイリンクスのサイトにサインインする必要があります。既にザイリンクス ユーザー アカウントをお持ちの場合は、ユーザー ID とパスワードを入力して、連絡情報が正しいかどうかを確認します。アカウントをまだ作成していない場合は、[Create Account] ボタンをクリックし、アカウントを作成してください。

製品ライセンスのアカウント

ソフトウェアまたは IP 製品をザイリンクスから購入すると、ライセンスを購入したことになり、その製品のアップデートを使用する権利が 1 年間あります。ザイリンクス ソフトウェアおよび IP 製品を使用するライセンスは、そのライセンスの状況によって異なります。ライセンスは、次の要件で決まります。

- 購入した製品
- 購入したライセンス数
- ライセンス タイプ (フローティングまたはノード ロック)
- 製品有効期間 (製品アップデートは 1 年間入手可能)

このサイトからは、購入したソフトウェア ツールおよび IP の製品権利だけでなく、無償の製品や評価版 製品などのライセンスにもアクセスできます。フル ライセンスおよび無償ライセンスの場合は、1 年間の有効期限があります。ソフトウェア ツールの評価版は 30 日、IP の評価版は 120 日間の有効期限があります。

ライセンスを有効にすると、Web サイトでライセンス ファイルが生成されます。インストールすると、ライセンス ファイルにより、購入または評価中のソフトウェアおよび IP の使用が有効になります。ライセンスやライセンス キー ファイルはザイリンクス Web サイトで管理します。

ライセンス アカウントは、ザイリンクス ソフトウェア購入リストの個人に与えられ、エンド ユーザーまたは管理者のいずれかになります。管理者が 1 人の場合は同じライセンス アカウントですべての購入を管理できます。企業の場合は、異なる管理者によって複数のアカウントを持つことができるので、デザイン チームが複数存在し、別々のプロジェクトをしている場合や予算が異なる場合などに便利です。

メモ：ライセンス キーは、製品権利の期限が切れていても生成でき、有効期限までにリリースされているバージョンに対しては使用できます。ただし、ライセンスの有効期限後にリリースされた製品に対して、このライセンスを使用するとエラーになります。

ISE Design Suite 12 の LogiCORE IP ライセンスの生成

ISE Design Suite 12 からは、LogiCORE IP のライセンスはザイリンクスのラウンジ サイトからではなく、自動化されて、その他のソフトウェアと同じ方法で生成できるようになりました。

LogiCORE IP の購入リクエストがザイリンクス システムに入力されると、2 時間以内に製品ダウンロードおよびライセンス (Product Licensing) サイトから生成できるようになっています。

IP および購入済みソフトウェア ライセンスはすべて、製品ライセンス サイトにログインするとリストされます。評価用ライセンスおよび無償 IP のライセンスも同じサイトから入手できます。すべてのソフトウェアおよび IP のライセンスが 1 度で生成でき、1 つのライセンス ファイルがメールで送信されます。また、IP コアの FLEXnet ライセンスには、シングルまたはトリプル リダンダントフローティング サーバーなどのライセンス オプションが増えたほか、イーサネット MAC アドレス、ハード ドライブ シリアル番号、USB ドングル ID などのノード ロック ライセンス キーのホスト オプションも増えています。

ユーザー タイプとアクション

製品ライセンス サイトには、カスタマ アカウント管理者、エンド ユーザー、評価ユーザーの 3 つのユーザー タイプのいずれかでアクセスできます。

カスタマ アカウント管理者

各アカウントに、必ず 1 人のカスタマ アカウント管理者が必要です。カスタマ アカウント管理者は、複数のアカウントを管理できます。

カスタマ アカウント管理者には、次のような権限があります。

- ザイリンクス ソフトウェアおよび IP 製品のノード ロックまたはフローティング ライセンスの生成
- アカウントからのユーザーの追加と削除
- ほかのユーザーへの管理者権限の割り当て

カスタマ アカウント管理者の情報は、製品注文の過程で送付先として指定され、管理者の電子メール宛に購入した製品のダウンロードおよびライセンス情報などが送付されます。カスタマ アカウント管理者が電子メールのリンクをクリックすることで、購入した製品へのアクセスができますようになります。

エンド ユーザー

エンド ユーザーをアカウントに追加すると、ライセンス キーの管理や生成を各エンジニアやデザイン チーム メンバーなどが管理できるようになります。エンド ユーザーは、アカウント内でノード ロック付きライセンス キーを生成できるほか、評価版ソフトウェアや IP 製品のライセンス キーも生成できます。ただし、エンド ユーザーには、次のような制限があります。

- フローティング ライセンス キーは生成できません。サーバー ベース (フローティング) のライセンス キーを生成できるのは、カスタマ アカウント管理者のみです。フローティング ライセンスは、エンド ユーザーのアカウント内で表示されません。
- ほかのユーザーが生成したライセンス キーは表示されません。
- ほかのユーザーをサイトから追加または削除できません。

評価ユーザー

評価ユーザーは、ISE Design Suite 12 製品を試してみたい方向けのアカウントです。評価ユーザーは、次を実行できます。

- ISE Design Suite 12: System Edition の 30 日間無償の評価版ライセンス キーを生成できます。
- 評価版および無償の IP 製品のライセンス キーを生成できます。

メモ： ISE Design Suite 製品エディションのフル バージョンのライセンスを既に持っている場合は、それ以外の ISE Design Suite 製品エディションまたは IP を試用できます。これらのライセンスは同じアカウントで入手できるようになっています。

どのタイプのユーザーでも、製品の電子ダウンロード、ISE Design Suite 12 の DVD の請求ができます。

ライセンス ファイルの生成

ライセンス ファイルは、製品ライセンス (Product Licensing) サイトの [Create New Licenses] タブから生成します。購入済みまたは評価するソフトウェア ツールおよび IP 製品が表にリストされます。

Home : [Support](#) : Product Licensing
Product Licensing

Looking to register 10.1 or earlier software products?

Account: Xilinx Test Account - 10101 Help

[Create New Licenses](#) [Manage Licenses](#) [Manage Users](#)

Create a New License File for Account: Xilinx Test Account

Create a new license file by making your product selections from the table below. Floating and Node-Locked licenses cannot be combined in the same license file. [?](#)

[+ Add Evaluation and No Charge IP Cores to Product Table](#)

	Product	Type	License	Available Seats	Status	Subscription End Date
<input type="checkbox"/>	ISE Design Suite: System Edition	Evaluation	Node	1/1	Current	30 days
<input checked="" type="checkbox"/>	ChipScopePro Standalone Including Serial IO Toolkit	Full	Floating	50/50	Current	30 MAR 2010
<input type="checkbox"/>	ChipScopePro with Serial IO Toolkit, Transitional License	Full	Node / Floating	50/50	Current	30 MAR 2010
<input checked="" type="checkbox"/>	ISE Design Suite: System Edition	Full	Floating	50/50	Current	30 MAR 2010
<input type="checkbox"/>	LogiCORE, 10 Gigabit Ethernet MAC	Full	Node / Floating	Site	Current	30 MAR 2010
<input type="checkbox"/>	LogiCORE, 32-bit and 64-bit Initiator/Target for PCI	Full	Node / Floating	Site	Current	30 MAR 2010

[Generate Floating License](#) [Generate Node-Locked License](#)

What is the difference between a floating and a node license? [?](#)

図 4-4 : 新規ライセンスの作成

製品の選択

購入済みまたは評価する製品のライセンスを、次の手順で生成します。

1. [Account] ドロップダウン リストからアカウントを選択します。

メモ : 評価版または無償の製品を使用する場合は、このドロップダウン リスト は表示されません。

2. 表から製品を選択します。

ライセンスの種類は、Full (購入済み)、No Charge (無償)、Evaluation (評価) のいずれかになります。フル ライセンスおよび無償ライセンスの場合は、1 年間の有効期限があります。ソフトウェア ツールの評価版は 30 日、IP の評価版は 120 日間の有効期限があります。

フローティング ライセンスとノード ロック ライセンスを同じライセンス キー ファイルに混ぜることはできません。

メモ：フローティング ライセンスはネットワーク サーバーにのみ置くことができ、アプリケーションを起動するとライセンスがチェックアウトされます。同時に使用できるユーザーの数は、購入したライセンスの数によって異なります。ノード ロック ライセンスの場合は、特定のマシンに 1 ライセンスの使用が認められます。

ソフトウェア ツールの場合、表の [Available Seats] に購入したライセンスの総数が表示されます。IP の場合、ライセンスはサイトの契約に従って管理されます。

表の [Status] に「Current」と表示されている場合は、その製品が保証期間内にあることを示し、「Expired」と表示されている場合は、その保証期間が終了したことを示しています。[Available Seats] の数がまだある場合は、「Current」または「Expired」の製品のライセンスを生成できます。

ISE Design Suite の System Edition Evaluation は ISE Design Suite ツール セットすべての機能にアクセスできる評価版です。このライセンスは自動的にアカウントに含まれます。

[Click here to add Evaluation and No Charge IP Cores to Product Table] をクリックすると、次のようなページが表示され、評価版および無償の IP も製品リストに追加できます。

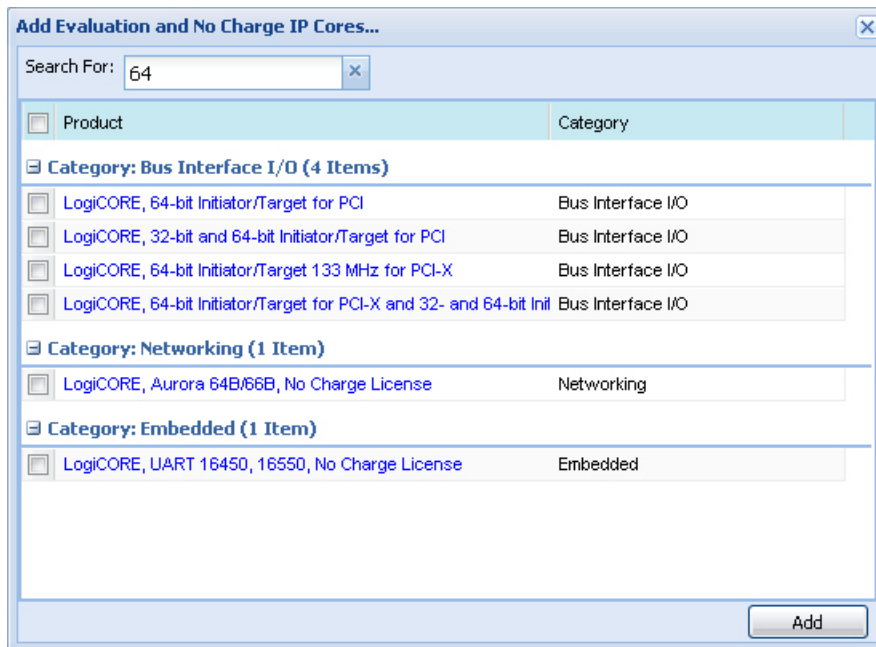


図 4-6：IP 製品の選択

メモ：IP 製品は、通常サイト ライセンスとして販売されており、管理者がフローティング ライセンスおよびノード ロック ライセンス タイプのライセンス キーを生成できるようになっています。

メモ：エンド ユーザーの場合は、ノード ロック ライセンス製品しか表示されません。カスタマ アカウント管理者、またはフローティング ライセンスの生成を管理者から許可されたエンド ユーザーの場合は、ノード ロックとフローティングの両方が表示されます。

ライセンスの生成

生成するライセンス キー ファイルの種類によって、[Generate Node-Locked License] または [Generate Floating License] ボタンが表示されます。[Generate Floating License] をクリックすると、次のようなライセンス生成フォームが表示されます。

Generate Floating License
*Fields marked with an asterisk * are required.*

1 PRODUCT SELECTION

Product Selections *	Product	Type	Available Seats	Subscription End Date	Requested Seats
<input checked="" type="checkbox"/>	ChipscopePro Standalone Including	Full	50/50	30 MAR 2010	50
<input checked="" type="checkbox"/>	ISE Design Suite: System Edition	Full	50/50	30 MAR 2010	50

2 SYSTEM INFORMATION

License: Floating

Redundancy ? ☒ Non-Redundant ☐ Triple Redundant

Host ID ?

3 COMMENTS

Comments ?

図 4-8：フローティング ライセンスの生成

このフォームを次のように変更します。

1. 各製品のライセンス数を選択します。

[Available Seats] の数は、システムにより自動的に管理されます。シート数がライセンスの数に達していない場合は、[Requested Seats] フィールドが表示されます。有効化されたライセンス数がシート数に達すると、表からその製品が削除されます。

2. システム情報を入力します。

ザイリンクス ライセンス コンフィギュレーション マネージャ (XLCM) 内のリンクから製品 ライセンス (Product Licensing) サイトにアクセスした場合、オプション メニューにシステム情

報があらかじめ入力されています。Windows の場合、[プログラム] → [Xilinx ISE Design Suite 12] → [アクセサリ] → [ザイリンクス ライセンスの管理] から XCLM を起動できます。Linux の場合、シェルから `xlcm` と入力してください。

[Redundant Server] を [Yes] にしておくと、ライセンス マネージャ ソフトウェアのファイル オーバー機能がオンになるので、3 つのサーバーのうち 2 つが実行されている限り、ライセンス マネージャは続行して実行されます。

システム情報が入力されていない場合は [Select a host]、別のホストを追加する場合は [Add a host] をクリックし、ホストを追加します。

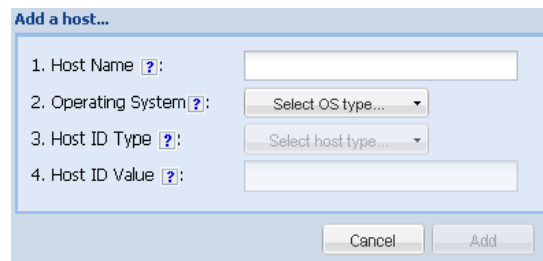


図 4-10：ホストの追加

ホスト ID とは、ソフトウェアまたは IP のライセンスが与えられたマシンを識別する値で、MAC アドレス、ハード ドライブのシリアル番号、dongle ID、Solaris ホスト ID などを選択できます。

メモ：ホスト ID のタイプすべてが全 OS でサポートされているわけではありません。ホスト ID を取得するには、ライセンス ホストとなるマシンで XCLM を実行するのが一番簡単な方法です。

3. コメントを記述します。

コメントを追加すると、管理者がソフトウェアや IP のライセンスをユーザー間でどのように分けたかなどの記録を残すことができます。

4. [Next] をクリックします。

次のようなライセンス リクエストを確認するフォームが表示されます。

Generate Floating License

4 REVIEW LICENSE REQUEST

Product Selections

Product	Subscription End Date	Available Seats	Requested Seats
ChipscopePro Standalone Including Serial IO Toolkit	2010-03-30	50/50	50
ISE Design Suite: System Edition	2010-03-30	50/50	50

System Information

License	Floating
Redundant Server	No
Host Name(s)	TestPC1
Host ID	132413241234

Previous Next Cancel

図 4-12：ライセンス リクエストの確認

5. 内容を確認します。
6. 入力後、[Next] をクリックします。

エンド ユーザー ライセンス契約 (EULA)

ISE Design Suite ソフトウェア ツールと無償 IP の EULA は、製品のインストール プロセス中に許諾されます。IP 製品のライセンスを取得するには、ライセンス ファイルを生成する前に該当する IP 製品の EULA を許諾する必要があります。

サードパーティのライセンス

12.1 のサード パーティ ライセンスのコピーは、
<installdirectory>/common/licenses/unified_3rd_party_eulas_12_1.txt に含まれます。

ライセンス生成の確認

ライセンス生成プロセスが終了したら、次のような確認メッセージが表示されます。

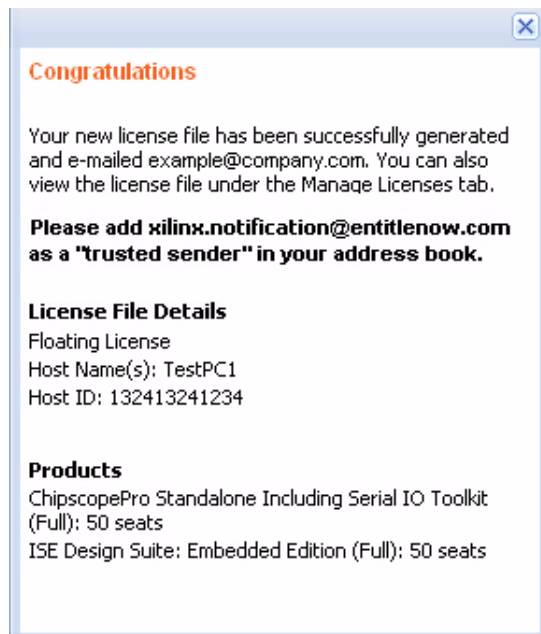



図 4-14：ライセンス生成の確認

ライセンスを生成すると、確認メールも送信されます。このメッセージには、生成したライセンスファイルが添付されます。アドレスブックに `xilinx.notification@entitlenow.com` を信頼する送信者として追加しておいてください。

ライセンス ファイルの管理

製品ライセンスのサイトでは、生成したライセンス ファイルの記録が残ります。[Manage Licenses] タブには、そのアカウントで生成したライセンス ファイルすべてが表示されます。



My Account | Sign Out | Language | Documentation | Downloads | Contact Us

XILINX. enter keywords  Advanced Search

Product & Services | Technology Solutions | Market Solutions | Support | Buy Online | About Xilinx

Home : Support : Product Licensing
Product Licensing

Looking to register 10.1 or earlier software products?

Account: Xilinx Test Account - 10101   Help

Create New Licenses | **Manage Licenses** | Manage Users






Manage License Files for Account: Xilinx Test Account

Host Name	Host Type	Host ID	License Type	OS	Created By	Created Date
TestPC1	Ethernet MAC	132413241234	Floating	Windows 32-bit	Demo User	30 MAR 2009
TestPC2	Ethernet MAC	abcde12abcde	Node	Windows 32-bit	Demo User	30 MAR 2009
TestPC4	Ethernet MAC	129012901290	Node	Windows 32-bit	Demo User	30 MAR 2009





TomTestPC1 **132413241234** **Floating** **Tom Hirsh** **30 MAR 2009**

Comments
ISE Design Suite product licenses for Portland design team. Reference PO #123456.

Product	Type	Status	Subscription End Date	Activated Seats
ISE Design Suite: Embedded Edit	Full	Current	30 MAR 2010	40
ChipscopePro Standalone Includ	Full	Current	30 MAR 2010	50

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図 4-16 : ライセンスの管理

[Manage Licenses] タブからは、必要に応じて次を実行できます。

既存ライセンス ファイルの検索と抽出

ユーザーのアカウントから生成したライセンス ファイルに関する情報は、マスタ ビューと詳細ビューに表示されます。上部の表 (マスタ ビュー) で行をクリックすると、そのライセンス キーファイルの詳細情報が下部の表 (詳細ビュー) に表示されます。詳細ビューの表には、次の情報が含まれます。

- そのファイルで有効になった製品のリスト
- そのファイルに関連するコメント
- ライセンス ファイルをダウンロードまたはメール送信する機能
- ライセンス ファイルを開いて内容をコピーする機能
- ライセンス ファイルの削除機能
- 許諾したエンド ユーザー ライセンス契約を表示する機能

ライセンス ファイルの修正

既存のライセンス ファイルを修正するには、マスタ ビューでそのライセンス ファイルを選択し、下の詳細ビューで [Modify License] ボタンをクリックします。次を修正できます。

- ライセンス サーバー ホストの変更
- 既存のライセンスのシート数を変更または削除 (フローティング ライセンスのみ)
- 既存の製品ライセンスシート数の無効化や削除
- 別の製品のライセンスを追加
- ライセンス ファイルから製品ライセンスの無効や削除

無効になった製品ライセンスの有効化

製品ライセンスは、次のいずれかが実行されると無効になります。

- ライセンス サーバー ホストの変更
- 既存の製品ライセンスシート数の無効化や削除
- ライセンス ファイルから製品ライセンスの無効や削除

無効にされたシートまたは製品ライセンスは [Create Licenses] タブで有効にすると、再び発行できるようになります。

ライセンスを再発行する前に、まず破棄証書文を許諾します。この法的契約は、無効になった製品ライセンスが使用されていないことを確認するために必要です。

再発行の数は、ユーザーごとに記録されます。製品ライセンスはメジャー リリースごとに管理者は 5 回、エンド ユーザーは 3 回再発行できます。

ユーザー アクセスの管理

各ユーザーのアカウントの権限は、変更可能です。アカウントへのユーザーの追加や削除は、[Manage Users] タブから実行します。

Home : [Support](#) : [Product Licensing](#)

Account: Xilinx Test Account - 10101

Looking to register 10.1 or earlier software products? [Help](#)

[Create New Licenses](#) [Manage Licenses](#) [Manage Users](#)

Users for Account Xilinx Internal

Name	E-Mail	Administrator	Floating	
Brown, Bob	Bob.Brown@example-company.com	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Johnson, Jane	Jane.Johnson@example-company.co	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Not Yet Registered	Sam.Smith@example-company.com	<input type="checkbox"/>	<input type="checkbox"/>	

Add new user to account Xilinx Internal - Xilinx Internal
 An e-mail invitation will be sent. Additional account information will be added when the new user logs in to the system.

☐ Add as a full administrator
☐ Allow floating licenses

[Add User](#)

Site license restrictions for IP products [?](#)

図 4-18 : ユーザーの管理

ユーザーの追加

アカウントにユーザーを追加するには

1. 新しいユーザーの会社の電子メール アドレスを入力します。
2. 管理者権限を与える場合は、[Add as a full administrator] チェック ボックスをオンにします。フローティング ライセンスを生成する 権限を与え、管理者権限を与えない場合は、[Allow Floating Licenses] チェック ボックスをオンにします。

メモ：入力する電子メール アドレスは、そのユーザーがザイリンクス アカウントを作成したときに使用したアドレスと同じである必要があります。別のアドレスを使用すると、ログインしたときにそのユーザーが正しく認識されない可能性があります。

ユーザーが既に製品ライセンス サイトにアクセスしたことのある場合、名前が自動的にユーザー リストに表示されます。このサイトにアクセスしたことがない場合は、名前のところに [Not Yet Registered] と表示されます。ユーザーがサインインをすると、名前が表示されます。

管理者権限のないエンド ユーザー ([Add as full administrator] と [Allow Floating Licenses] チェック ボックスの両方をオフにした場合) は、次の機能が使用できます。

- ノード ロック ライセンス キーのみ生成可能
- 自分自身で生成したライセンス ファイルのみ表示および修正可能
- ユーザー管理は不可

[Allow Floating Licenses] のみをオンにした場合は、フローティング ライセンス キーの生成はできますが、その他の制限はそのままです。管理者権限にはフローティング ライセンスを生成する権限が既に 含まれるため、両方のチェック ボックスをオンにすることはできません。

ユーザーの削除

管理者権限またはフローティング ライセンス生成権限は、該当するユーザーの [Administrator] または [Floating] チェック ボックスをオフにすると、無効にできます。

ユーザーをアカウントから削除するには、該当するユーザーのゴミ箱アイコンをクリックします。

ライセンス キー ファイルのインストール

ノード ロック ライセンスのインストール

ライセンス ファイルを生成すると、xilinx.notification@entitlenow.com からメールが届きます。

1. このメールに添付されたライセンス ファイルをローカルの一時ディレクトリに保存します。
2. Xilinx License Configuration Manager を実行します。
 - ◆ Windows の場合：[スタート] → [プログラム] → [Xilinx ISE Design Suite 12] → [アクセサリ] → [ザイリンクス ライセンスの管理] をクリック
 - ◆ Linux の場合：シェルから xlicm と入力
3. [Manage Xilinx Licenses] タブをクリックします。
4. ページ上部の [Copy License] ボタンをクリックします。
5. 保存したライセンス ファイル (Xilinx.lic) を参照ボタンで選択し、[開く] をクリックします。

これで、ライセンス ファイルが C:\.Xilinx (Windows) または <Home>/.Xilinx にコピーされ、ザイリンクス ツールから自動的に認識されるようになります。

6. [Copy License] ボタンを使用すると、[Manage Xilinx Licenses] タブの表がライセンス ファイルからの情報に従ってアップデートされます。
7. Xilinx License Configuration Manager を [Close] で終了します。

サーバーへのフローティング ライセンスのインストール

既存の FLEXnet ライセンス サーバーの場合は、xilinx.notification@entitlenow.com から送信されたライセンス ファイルの内容を FLEXnet サーバーの既存のライセンス ファイルにコピーします。

メモ：フローティング ライセンス サーバーを再起動して、ザイリンクス ライセンスを有効にします。

新規ライセンス サーバーの場合

1. 次のサイトからサーバーの OS に最適なザイリンクス FLEXnet ライセンス ユーティリティをダウンロードします。

<http://japan.xilinx.com/download/index.htm>

メモ：FLEXnet ライセンス ユーティリティにアクセスできるのは、製品ライセンス サイトのカスタマ アカウント管理者のみです。ご自身がカスタマ アカウント管理者であるかどうかを確認する方法は、「[ユーザー タイプとアクション](#)」を参照してください。

2. これらのユーティリティをディレクトリで解凍します。このディレクトリは、アプリケーションの検索パスに置くことをお勧めします。
3. FLEXnet ユーティリティをインストールしたら、次のコマンドを実行して、フローティング ライセンス サーバーを起動します。

◆ Linux の場合

- <Server Tool directory>/bin/linux/lmgrd -c <path_to_license>/Xilinx.lic -l <path_to_license>/log1.log
- <Server Tool directory> bin/linux64/lmgrd -c <path_to_license>/Xilinx.lic -l <path_to_license>/log1.log

◆ Windows の場合

- <Server Tool directory>\bin\nt\lmgrd -c <path_to_license>\Xilinx.lic -l <path_to_license>\log1.log
- <Server Tool directory>\bin\nt64\lmgrd -c <path_to_license>\Xilinx.lic -l <path_to_license>\log1.log

クライアント マシンからのフローティング ライセンスの指定

1. Xilinx License Configuration Manager (XLCM) を実行します。
2. [Acquire a License] の画面で [Manage Xilinx Licenses] タブをクリックします。
3. port@server の形式でライセンス サーバーへのネットワーク パスを
XILINXD_LICENSE_FILE フィールドに入力し、その隣の [Set] ボタンをクリックします。
デフォルトのザイリンクス ポート番号は 2100 です。

メモ：Linux の場合、ライセンス環境変数は Xilinx License Configuration Manager (XLCM) を使用して設定できません。環境変数フィールドは、読み出し専用なので、選択できないように淡色表示され [Set] ボタンも表示されません。環境変数は、該当するシェルおよびコマンドを使用して設定する必要があります。

テクニカル サポート、サービス、関連文書

この章では、テクニカル サポート、サービス、関連文書について、次のセクションに分けて説明します。

- 「テクニカル サポート」
- 「トレーニング サービス」
- 「マニュアル」

テクニカル サポート

技術的な質問については、ザイリンクス サポート サイトを参照してください。

<http://japan.xilinx.com/support/mysupport.htm>

このサイトでは、アンサー データベースを検索したり、次のセルフ サポート機能を使用することができます。

- 資料ページ : <http://japan.xilinx.com/support/documentation/index.htm>
- ダウンロード センタ : <http://japan.xilinx.com/support/download/index.htm>
- アンサー ブラウザ : <http://japan.xilinx.com/support/answers/index.htm>
- ザイリンクス ユーザー コミュニティ フォーラム : <http://forums.xilinx.com/xlnx/>
- デザイン リソース - ビデオ デモ : <http://japan.xilinx.com/design>

オンライン リソースを使用しても問題が解決しない場合は、ザイリンクス テクニカル サポートまで直接ご連絡ください。

<http://japan.xilinx.com/support/techsup/tappinfo.htm>

トレーニング サービス

ザイリンクスでは、プログラマブル ロジック デザインのエキスパートやザイリンクス承認のインストラクタによる高品質なトレーニング サービスを提供しています。トレーニングには、オンサイトおよびオンラインのインストラクタによるものと、ご自身のペースで学ぶことのできる録画済みのビデオなどがあります。

次のサイトからは、トレーニング コース、無料のオンデマンド トレーニング、ライブのオンライン トレーニング、イベントなどの詳細情報が入手できます。

<http://japan.xilinx.com/support/education-home.htm>

マニュアル

ザイリンクスでは、ISE Design Suite を使用するのに役立つ技術文書を提供しています。

オンライン ヘルプ

グラフィック ユーザー インターフェイスのある ISE Design Suite ツールのほとんどのツールから、状況に応じたオンライン ヘルプを利用できます。オンライン ヘルプは、Project Navigator で [Help] → [Help Topics] をクリックしても表示できます。

ソフトウェア マニュアル

ISE Design Suite の詳細なソフトウェア マニュアルおよびコマンド ライン機能は、ソフトウェア インストールに含まれます。ソフトウェアをインストール後、Project Navigator で [Help] → [Software Manuals] をクリックすると、ソフトウェア マニュアルのコレクションが表示されます。

メモ：ソフトウェア マニュアルを表示するには、Adobe Acrobat Reader が必要です。

Xilinx Platform Studio (XPS) では、文書のナビゲーション ページがデフォルトの開始画面になっています。この文書のタブからすべてのエンベデッド開発キット (EDK) に関するマニュアルを表示することができます。XPS を起動せずにマニュアルを開く場合は、\$XILINX_EDK/doc/japanese ディレクトリの edk_documentation_locator.htm ファイルを参照してください。

Web サイトからソフトウェア マニュアルを参照するには、次の手順に従ってください。

1. 資料ページ (<http://japan.xilinx.com/support/documentation/index.htm>) にアクセスします。
2. [デザイン ツール] タブをクリックします。
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A: No. The special exception permits use of the library in proprietary applications.

Q: How is that different from the GNU {Lesser,Library} GPL

-- Quoting Jason Merrill from the thread above: --

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binutils (for MicroBlaze)

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README for release 6b of 27-Mar-1998

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This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge' Weijers, and other members of the Independent JPEG Group.

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OVERVIEW

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This package contains C software to implement JPEG image compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a

low-quality image. For more details, see the references, or just experiment with various compression settings.

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these processes, although some uncommon parameter settings aren't implemented yet. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application. We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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<http://gcc.gnu.org/ml/libstdc++/2000-q2/subjects.html#00050>

Q: So any program which uses libstdc++ falls under the GPL?

A: No. The special exception permits use of the library in proprietary applications.

Q: How is that different from the GNU {Lesser,Library} GPL

-- Quoting Jason Merrill from the thread above: --

A: The LGPL requires that users be able to replace the LGPL code with a modified version; this is trivial if the library in question is a C shared library. But there's no way to make that work with C++, where much of the library consists of inline functions and templates, which are expanded inside the code that uses the library. So to allow people to replace the library code, someone using the library would have to distribute their own source, rendering the LGPL equivalent to the GPL.

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RFC 1051

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Based on UNI3.1 standard by ATM Forum

ATM traffic types based on VPI=0 and (the following VCI

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This file contains dlpi/libdlpi related common functions used by pcap-[dlpi,libdlpi].c.

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File: /home/sps/ttt/libpcap-1.0.0/./fad-sita.c

fad-sita.c: Packet capture interface additions for SITA ACN devices

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File: /home/sps/ttt/libpcap-1.0.0/.filtertest.c

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#define CHASE_CHAIN*/

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@(#) \$Header: /tcpdump/master/libpcap/gencode.h,v 1.70.2.1 2007/11/18 02:04:55 guy Exp \$ (LBL)

ATM support:

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\$FreeBSD: src/sys/net80211/ieee80211.h,v 1.10 2005/07/22 16:55:27 sam Exp \$

File: /home/sps/ttt/libpcap-1.0.0/inet.c

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File: /home/sps/ttt/libpcap-1.0.0/./nametoaddr.c

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Name to id translation routines used by the scanner.

These functions are not time critical.

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Types missing from some systems

Network layer protocol identifiers

File: /home/sps/ttt/libpcap-1.0.0/./optimize.c

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Optimization module for tcpdump intermediate representation.

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Bluetooth sniffing API implementation for Linux platform

By Paolo Abeni <paolo.abeni@email.it>

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By Paolo Abeni <paolo.abeni@email.it>

@(#) \$Header: /tcpdump/master/libpcap/pcap-bt-linux.h,v 1.4.2.1 2008-04-04 19:39:05 guy Exp \$
(LBL)

Prototypes for Bluetooth-related functions

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pcap-linux.c: Packet capture interface to the Linux kernel

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Sebastian Krahmer <krahmer@cs.uni-potsdam.de>

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Modifications: Added PACKET_MMAP support

Paolo Abeni <paolo.abeni@email.it>

based on previous works of:

Simon Patarin <patarin@cs.unibo.it>

Phil Wood <cpw@lanl.gov>

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packet filter subroutines for tcpdump

Extraction/creation by Jeffrey Mogul, DECWRL

File: /home/sps/ttt/libpcap-1.0.0/./pcap-sita.c

pcap-sita.c: Packet capture interface additions for SITA ACN devices

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Modifications made to accommodate the new SunOS4.0 NIT facility by Micky Liu, micky@cunixc.cc.columbia.edu, Columbia University in May, 1989. This module now handles the STREAMS based NIT.

File: /home/sps/ttt/libpcap-1.0.0/./pcap-snoop.c

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@(#) \$Header: /tcpdump/master/libpcap/pcap-stdinc.h,v 1.10.2.1 2008-10-06 15:38:39 gianluca Exp
\$ (LBL)

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USB sniffing API implementation for Linux platform

By Paolo Abeni <paolo.abeni@email.it>

Modifications: Kris Katterjohn <katterjohn@gmail.com>

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USB sniffing API implementation for Linux platform

By Paolo Abeni <paolo.abeni@email.it>

@(#) \$Header: /tcpdump/master/libpcap/pcap-usb-linux.h,v 1.4.2.1 2008-04-04 19:39:06 guy Exp \$ (LBL)

Prototypes for USB-related functions

File: /home/sps/ttt/libpcap-1.0.0/./pcap-win32.c

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@(#) \$Header: /tcpdump/master/libpcap/pcap.h,v 1.59 2006/10/04 18:09:22 guy Exp \$ (LBL)

File: /home/sps/ttt/libpcap-1.0.0/./ppp.h

@(#) \$Header: /tcpdump/master/libpcap/ppp.h,v 1.12 2005/02/08 19:52:19 guy Exp \$ (LBL) */

Point to Point Protocol (PPP) RFC1331

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File: /home/sps/ttt/libpcap-1.0.0/./savefile.c

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savefile.c - supports offline use of tcpdump

Extraction/creation by Jeffrey Mogul, DECWRL

Modified by Steve McCanne, LBL.

Used to save the received packet headers, after filtering, to
a file, and then read them later.

The first record in the file contains saved values for the machine
dependent values so we can print the dump file on any architecture.

File: /home/sps/ttt/libpcap-1.0.0/./sunatmpos.h

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@(#) \$Header: /tcpdump/master/libpcap/sunatmpos.h,v 1.1 2002/07/11 09:06:47 guy Exp \$ (LBL)

SunATM header for ATM packet */

File: /home/sps/ttt/libpcap-1.0.0/./Win32/Src/ffs.c

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```
#include <sys/cdefs.h>
```

```
__FBSDID("$FreeBSD: /repoman/r/ncvs/src/lib/libc/net/gai_strerror.c,v 1.1 2005/04/06 12:45:51  
ume Exp $");
```

File: /home/sps/ttt/libpcap-1.0.0/.Win32/Src/getaddrinfo.c

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\$Id: inet_aton.c,v 1.2 2003/11/15 23:24:06 guy Exp \$ */

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\$Id: inet_pton.c,v 1.3 2007/09/27 18:02:20 gianluca Exp \$ */

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\$Id: addrinfo.h,v 1.1 2002/08/01 08:33:05 risso Exp \$ */

File: /home/sps/ttt/libpcap-1.0.0/Win32/Include/bittypes.h

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@(#) \$Header: /tcpdump/master/libpcap/Win32/Include/ip6_misc.h,v 1.5 2006/01/22 18:02:18 gianluca Exp \$ (LBL)

This file contains a collage of declarations for IPv6 from FreeBSD not present in Windows

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File: /home/sps/ttt/libpcap-1.0.0/./Win32/Include/net/if.h

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@(#)if.h8.1 (Berkeley) 6/10/93

\$FreeBSD: src/sys/net/if.h,v 1.49.2.1 1999/08/29 16:28:15 peter Exp \$

File: /home/sps/ttt/libpcap-1.0.0/./Win32/Include/net/netdb.h

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netdb.h,v 1.4 1995/08/14 04:05:04 hjl Exp

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@(#)paths.h5.15 (Berkeley) 5/29/91

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nameser.h,v 1.2 1995/05/06 14:23:54 hjl Exp

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bluetooth data struct

By Paolo Abeni <paolo.abeni@email.it>

@(#) \$Header: /tcpdump/master/libpcap/pcap/bluetooth.h,v 1.1 2007/09/22 02:10:17 guy Exp \$

File: /home/sps/ttt/libpcap-1.0.0/./pcap/bpf.h

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@(#)bpf.h 7.1 (Berkeley) 5/7/91

@(#) \$Header: /tcpdump/master/libpcap/pcap/bpf.h,v 1.19.2.8 2008-09-22 20:16:01 guy Exp \$(LBL)

File: /home/sps/ttt/libpcap-1.0.0/./pcap/namedb.h

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Mode: c; tab-width: 8; indent-tabs-mode: 1; c-basic-offset: 8; -*- */

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Basic USB data struct

By Paolo Abeni <paolo.abeni@email.it>

@(#) \$Header: /tcpdump/master/libpcap/pcap/usb.h,v 1.6 2007/09/22 02:06:08 guy Exp \$

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@(#) \$Header: /tcpdump/master/libpcap/vlan.h,v 1.1.2.2 2008-08-06 07:45:59 guy Exp \$

File: /home/sps/ttt/libpcap-1.0.0/./net/bpf_filter.c

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File: /home/sps/ttt/libpcap-1.0.0/./msdos/bin2c.c

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Developers:

David K. Hess, Douglas Lee Schales, David R. Safford

Heavily modified for Metaware HighC + GNU C 2.8+

Gisle Vanem 1998

File: /home/sps/ttt/libpcap-1.0.0/./msdos/ndis2.h

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\$Id: snprintf.c,v 1.1 2004/04/05 22:43:51 guy Exp \$

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@(#) \$Header: /tcpdump/master/libpcap/lbl/os-aix4.h,v 1.1 2002/06/01 09:37:40 guy Exp \$

Prototypes missing in AIX 4.x */

File: /home/sps/ttt/libpcap-1.0.0/.lbl/os-hpux11.h

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Prototypes missing in HP-UX 11.x

File: /home/sps/ttt/libpcap-1.0.0/.lbl/os-osf4.h

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@(#) \$Header: /tcpdump/master/libpcap/lbl/os-osf4.h,v 1.2 2000/12/22 11:51:33 guy Exp \$ (LBL)

Prototypes missing in Digital UNIX 4.x

File: /home/sps/ttt/libpcap-1.0.0/./lbl/os-osf5.h

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@(#) \$Header: /tcpdump/master/libpcap/lbl/os-osf5.h,v 1.2 2002/08/02 03:24:15 guy Exp \$ (LBL)

Prototypes missing in Tru64 UNIX 5.x

XXX - "snprintf()" and "vsnprintf()" aren't missing, but you have to #define the right value to get them defined by <stdio.h>.

File: /home/sps/ttt/libpcap-1.0.0/./lbl/os-solaris2.h

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@(#) \$Header: /tcpdump/master/libpcap/lbl/os-solaris2.h,v 1.19 2000/10/11 04:02:52 guy Exp \$(LBL)

Prototypes missing in SunOS 5 */

File: /home/sps/ttt/libpcap-1.0.0/lbl/os-sunos4.h

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@(#) \$Header: /tcpdump/master/libpcap/lbl/os-sunos4.h,v 1.32.1.1 1999/10/07 23:46:41 mcr Exp \$(LBL)

Prototypes missing in SunOS 4 */

File: /home/sps/ttt/libpcap-1.0.0/.lbl/os-ultrix4.h

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@(#) \$Header: /tcpdump/master/libpcap/lbl/os-ultrix4.h,v 1.19.1.1 1999/10/07 23:46:41 mcr Exp \$(LBL)

Prototypes missing in Ultrix 4 */

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libmangle and gendef

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getopt, getopt_long, and getopt_long_only
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gdtoa: Converting between IEEE floating point numbers and ASCII

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FIXME: Cephes math lib

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Although this library supports all features from the PNG specification (as MNG descends from it) it does not require the libpng package.

It does require the zlib library and optionally the IJG jpeg library, and/or the "little-cms" library by Marti Maria (depending on the inclusion of support for JNG and Full-Color-Management respectively).

This library's function is primarily to read and display MNG animations. It is not meant as a full-featured image-editing component! It does however offer creation and editing functionality at the chunk level.

(future modifications may include some more support for creation and or editing)

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June 5, 2007

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Written by John R. Hauser. More information is available through the Web page [`http://HTTP.CS.Berkeley.EDU/~jhauser/arithmetic/TestFloat.html'](http://HTTP.CS.Berkeley.EDU/~jhauser/arithmetic/TestFloat.html).

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Tcl v8.5.6

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mkdepend : generate dependency information from C/C++ files

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Modified heavily by David Gravereaux <davygrvy@pobox.com> about 9/17/2006. Original can be found @
<http://web.archive.org/web/20070616205924/http://www.doc.ic.ac.uk/~np2/software/mkdepend.html>

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RCS: @(#) \$Id: mkdepend.tcl,v 1.6 2007/12/13 15:28:40 dgp Exp \$

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- 5) ./generic/regerror.c
- 6) ./generic/regguts.h
- 7) ./generic/regfronts.c
- 8) ./generic/regfree.c
- 9) ./generic/regc_lex.c
- 10) ./generic/regcustom.h
- 11) ./generic/rege_dfa.c
- 12) ./generic/regcomp.c

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- 3) ./generic/regc_cvec.c – “Notes: Only (selected) functions in _this_ file should treat chr* as non-constant.”
- 4) ./generic/regc_nfa.c – “One or two things that technically ought to be in here are actually in color.c, thanks to some incestuous relationships in the color chains.”
- 6) ./generic/regguts.h – “Environmental customization. It should not (I hope) be necessary to alter the file you are now reading -- regcustom.h should handle it all, given care here and elsewhere.”
- 8) ./generic/regfree.c – “You might think that this could be incorporated into regcomp.c, and that would be a reasonable idea... except that this is a generic function (with a generic name), applicable to all compiled Res regardless of the size of their characters, whereas the stuff in regcomp.c gets compiled once per character size.”
- 9) ./generic/regc_lex.c – “scanning macros (know about v)”
- 10) ./generic/regcustom.h – “Headers if any.”

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A Bison parser, made by GNU Bison 2.3.

Skeleton implementation for Bison's Yacc-like parsers in C

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C LALR(1) parser skeleton written by Richard Stallman, by simplifying the original so-called "semantic" parser.

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Identify Bison output.

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RCS: @(#) \$Id: tclLoadAix.c,v 1.6 2007/04/16 13:36:36 dkf Exp \$

Note: this file has been altered from the original in a few ways in order to work properly with Tcl.

@(#)dlfcn.c1.7 revision of 95/08/14 19:08:38

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@(#)dlfcn.h1.4 revision of 95/04/25 09:36:52

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Win32threads

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```

pthread-win32 - a POSIX threads library for Microsoft Windows

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tests/rwlock7.c

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The goal of the pthreads-win32 project has been to provide a quality and complete implementation of the POSIX threads API for Microsoft Windows within the limits imposed by virtue of it being a stand-alone library and not linked directly to other POSIX compliant libraries. For example, some functions and features, such as those based on POSIX signals, are missing.

Pthreads-win32 is a library, available in several different versions depending on supported compilers, and may be used as a dynamically linked module or a statically linked set of binary modules. It is not an application on it's own.

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Releasing pthreads-win32 under the LGPL ensures that the library can be used widely, while at the same time ensures that bug fixes and improvements to the pthreads-win32 code itself is returned to benefit all current and future users of the library.

Although pthreads-win32 makes it possible for applications that use POSIX threads to be ported to Win32 platforms, the broader goal of the project is to encourage the use of open standards, and in particular, to make it just a little easier for developers writing Win32 applications to consider widening the potential market for their products.

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If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This program is free software: you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program. If not, see [<http://www.gnu.org/licenses/>](http://www.gnu.org/licenses/).

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

```
<program> Copyright (C) <year> <name of author>
```

```
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
```

```
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school, if any, to sign a "copyright disclaimer" for the program, if necessary. For more information on this, and how to apply and follow the GNU GPL, see [<http://www.gnu.org/licenses/>](http://www.gnu.org/licenses/).

The GNU General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you

<<<<<<<<xilinx-separator>>>>>>>>>

Version 2.1, February 1999

of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis

or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a

combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not

covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses

the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the

Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
- b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above

specified materials from the same place.

- e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>

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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

Application with the Library. The particular version of the Library with which the Combined Work was made is also called the "Linked Version".

The "Minimal Corresponding Source" for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.

The "Corresponding Application Code" for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.

1. Exception to Section 3 of the GNU GPL.

You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.

2. Conveying Modified Versions.

If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the

facility is invoked), then you may convey a copy of the modified version:

- a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or
- b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.

3. Object Code Incorporating Material from Library Header Files.

The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:

- a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.
- b) Accompany the object code with a copy of the GNU GPL and this license document.

4. Combined Works.

You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of

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- d) Do one of the following:
 - 0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.
 - 1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.
- e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is

necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)

5. Combined Libraries.

You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:

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- b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

6. Revised Versions of the GNU Lesser General Public License.

The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version

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Version 2, June 1991

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Preamble

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if

you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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