



Nucleus® Source Code Guide

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Chapter 1

Nucleus Source Code Overview

Nucleus Source Code contains full source code for all components as well as a fully integrated command-line build and configuration system. This product includes many Nucleus real-time operating system and middleware capabilities in a single, unified and cohesive platform.

Nucleus Source Code provides out-of-the-box command-line build support for a limited set of compilers to include Sourcery CodeBench (GCC), Renesas HEW (SuperH only), and RVCT (ARM only). Other third-party compilers/tools can be integrated with Nucleus Source Code using these as examples.

Nucleus Source Code consists of the major components described in [Table 1-1](#).

Table 1-1. Nucleus Source Code Components

Connectivity	CAN, I2C, SPI, SDIO, and USB (communications, mass storage, HID, host and functions)
IPC	Multi-core communication add on
Kernel	Device Manager, MMU, PLUS, C++, Nucleus Shell, Dynamic Download, Power Management Services
Networking	IPv4/IPv6 stack, SSL, IPsec-IKE, IPsec, WPA Supplicant, Web Sever, FTP/TFTP/Telnet client/server, SNTP client, NAT, SNMP, PPP (network extensions add on)
POSIX	OS portable source code add on
Storage	FAT, SAFE (fault tolerant) file systems

Table 1-2. Nucleus Source Code Services and Drivers

Services	Initialization, Registry, Debug Agent, Shell, Syslog
Device Drivers	USB (Host/Function/OTG), Ethernet, SPI, I2C, SD/MMC, Serial, DMA, WiFi, LCD, Touchpanel

i **Tip:** The default installation directory for the full version of Nucleus Source Code is `c:\mgc\embedded\nucleus-src` on Windows and `/home/<user>/mgc/embedded/nucleus-src` on Linux. This document uses `<install_root>` to refer to your installation directory.

- To start working with Nucleus Source Code see [Getting Started With Nucleus Source Code](#).
- To build and configure Nucleus Source Code from the command line, see [Building and Configuring Nucleus Source Code](#).
- To develop an application based on Nucleus Source Code, see [Developing a Nucleus Source Code Application](#).

Chapter 2

Getting Started With Nucleus Source Code

This chapter describes the tasks you need to complete in order to get up and running with Nucleus Source Code and a released BSP.

All sample code shown here is using Sourcery CodeBench for ARM for the toolset and the RealView Emulation Baseboard BSP (QEMU) for the ARM926EJ-S. These settings will change for different toolsets and/or BSPs.

Development Workflow

1. Install Nucleus Source Code. Refer to the *Nucleus Source Code Installation Instructions*.
2. Install the appropriate tool suite/compiler being used for development and ensure the path to these tools is present in your environment or added to the appropriate development shell batch file (`<install_root>\nucleus\tools\bin`).
3. Install a Nucleus BSP obtained from Mentor's SupportNet (http://supportnet.mentor.com/downloads/board_support_packages.cfm). Follow the instructions included in the *readme.txt* contained within the downloaded BSP archive.
4. Create a System Workspace from a development shell:
 - a. Double-click the appropriate development shell link contained within the Nucleus Source Code: `<install_root>\nucleus\tools`.
 - b. From the Nucleus Development Shell, create a System Workspace.

```
>make PLATFORM=realview_eb_ct926ejs NUCSYS_DIR=C:\myworkspace  
NUCSYS_NAME=qemu_workspace nucsys
```

This will create a copy of the installed Nucleus Source Code and only the single BSP selected via the PLATFORM variable. This copy will be contained in the folder specified by NUCSYS_DIR and sub-folder specified by NUCSYS_NAME. For the above example, this copy will be in `C:\myworkspace\qemu_workspace`.

Note



The source code in the Nucleus Source Code installation folder is considered a master or “golden” copy of the source code. This copy will be used as a means for Mentor to provide patches, updates, etc and should not be used for development (building, configuring, modifications, etc).

- c. Close the Nucleus Development Shell.
5. Build a sample application from the System Workspace development shell:
 - a. Double-click the appropriate development shell link under the `\nucleus\tools` directory within the newly created System Workspace.

Note

This is different than the original development shell used in step 4. This development shell will be within the System Workspace created (for instance `C:\myworkspace\qemu_workspace`).

- b. Change directories to the *hellonucleusworld* sample application (`\samples\hellonucleusworld`) in the development shell.
 - c. Execute *make* from the development shell to build the Nucleus library and the *hellonucleusworld* application.

```
make PLATFORM=realview_eb_ct926ejs
```
 - d. Various build artifacts will result to include a *hellonucleusworld.out* file that can be run on the target platform/hardware.
6. Use third-party development tools/debugger for running the resultant application.

Related Topics

[Building Nucleus Source Code from the Command Line Interface](#)

[Nucleus Source Code Configuration](#)

[Developing a Nucleus Source Code Application](#)

[BSP Terminology](#)

[Reconfiguring an Existing BSP](#)

[Terminology](#)

Terminology

Table 2-1 describes terminology for Nucleus Source Code developers.

Table 2-1. Terminology for Nucleus Source Code OS

Term	Definition
System Workspace	A workspace that consists of the Nucleus Source Code operating system, middleware, and a BSP.

Table 2-1. Terminology for Nucleus Source Code OS

Term	Definition
Application	Source code and build files for a Nucleus based application.
BSP (Board support package)	The hardware-specific subset of a Nucleus Source Code System Workspace. Each workspace contains one BSP.

Chapter 3

Building and Configuring Nucleus Source Code

This section provides a high level overview of how to build the Nucleus Source Code library. If you want to build applications against this library, see [Developing a Nucleus Source Code Application](#).

The default installation directory is `c:\mgc\embedded\nucleus-src`. This document uses `<install_root>` to refer to the installation directory. The following is a high-level view of the Nucleus Source Code directory structure:

```
docs
nucleus
|-- bsp
|-- config
|-- os
|-- samples
\-- tools
    |-- bin
    |   |-- winnt
    |   |   |-- x86
    |   |-- linux
    |       -- x86
    \-- scripts
```

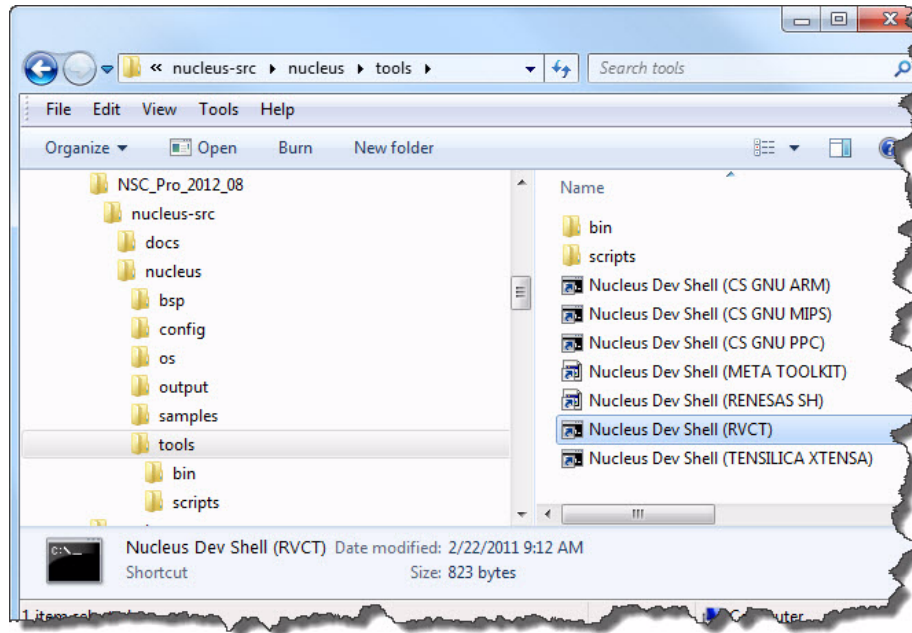
Note



The installation path name cannot have spaces.

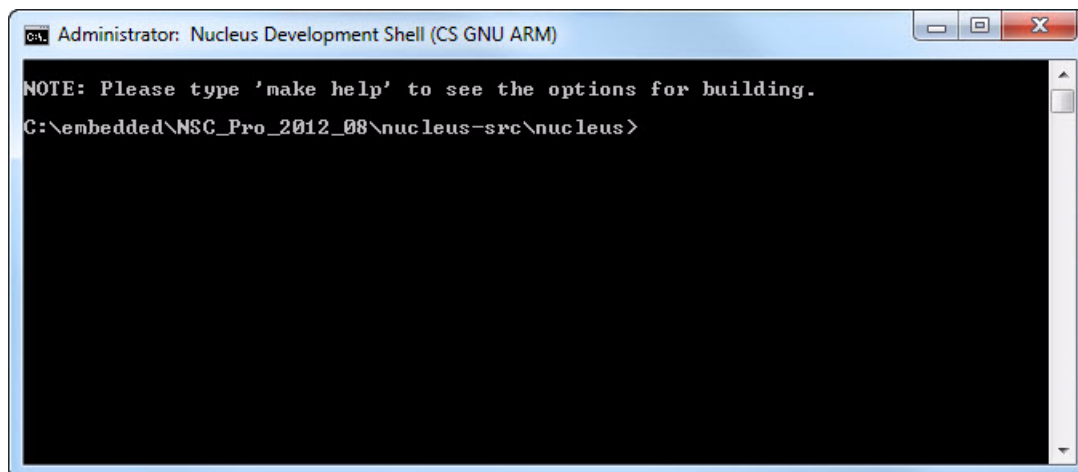
The `\tools` directory contains shortcuts to ready-made Nucleus Source Code development shells. These development shells setup the environment to build and configure the Nucleus library used by Nucleus based applications.

The development shell scripts (not shortcuts) for Linux are placed in the `tools/bin/linux` folder.

Figure 3-1. Nucleus Source Code Development Shell Shortcut Location**Note**

The Nucleus Source Code documentation assumes you are working in a Nucleus Source Code development shell when executing commands from the documentation. If you try to use the commands in a different environment, they might not work.

Double-click the shortcut associated with the toolset you are using to open the development shell.

Figure 3-2. Nucleus Source Code Development Shell

Related Topics

[Building Nucleus Source Code from the Command Line Interface](#)

[Nucleus Source Code Configuration](#)

[BSPs and Drivers](#)

[Development Workflow](#)

Building Nucleus Source Code from the Command Line Interface

Nucleus Source Code is built using GNU Make. The Makefile system provided with Nucleus Source Code exposes parameters and targets to control the build process in various ways. These features provide a powerful and flexible way to build and configure Nucleus Source Code completely from a command line interface (CLI). Targets and parameters are discussed in [Makefile Targets](#).

Related Topics

[Makefile Targets](#)

[Makefile Parameters](#)

[Build Output Directory Structure](#)

Makefile Targets


Various make targets are provided that execute different build or configuration actions. [Table 3-1](#) describes the provided targets.

Table 3-1. Provided Makefile Targets

Name	Description
all	Builds the complete library and sample binaries.
config	Configures the current tree to the default values or what is defined through USER_CONFIG.
clean	Cleans all of the artifacts produced by the build.
custombsp	Creates a new BSP that is based on an existing BSP and supports only the drivers you need. See Creating a Custom BSP .
distclean	Cleans the whole output directory, including any generated files.
help	Displays the make system help.

Table 3-1. Provided Makefile Targets (cont.)

Name	Description
nucsys	Creates a Nucleus Source Code System Workspace based on the platform value “PLATFORM”.

 **Note** The “nucsys” target that uses NUCSYS_DIR and NUCSYS_NAME environment variables copies the Nucleus Source Code source, FUSE, specified PLATFORM (BSP), etc to the location specified by NUCSYS_DIR/NUCSYS_NAME.

Makefile Target Usage Examples

The following examples show different usage of the Makefile targets using one of the provided development shells.

- First, configure the tree.

```
make PLATFORM=realview_eb_ct926ejs config
```

- Build everything.

```
make PLATFORM=realview_eb_ct926ejs all
```

- Clean the previously built artifacts.

```
make PLATFORM=realview_eb_ct926ejs clean
```

- Clean everything built by the build system.

```
make PLATFORM=realview_eb_ct926ejs distclean
```

- Rebuild everything.

```
make PLATFORM=realview_eb_ct926ejs
```

- Create a custom BSP that is based on an existing BSP.

```
make PLATFORM=realview_eb_ct926ejs PLATFORM_CLONE=custom_bsp  
custombsp
```

- Create a Nucleus Source Code Workspace for development.

```
make PLATFORM=realview_eb_ct926ejs NUCSYS_DIR=C:\myworkspace  
NUCSYS_NAME=qemu nucsys
```


Makefile Parameters

Various options are provided in the Makefile system that control various aspects of the build and configuration process. [Table 3-2](#) describes the included options.

Table 3-2. Makefile Parameter Options

Name	Description	Allowed Values
PLATFORM	Specifies the hardware platform to build for.	Use <i>make help</i> to see a list of supported platforms (BSPs) that are currently installed.
TOOLSET	Specifies what toolset to use when building.	Use <i>make help</i> to see a list of supported toolsets. NOTE: When using a Nucleus Development Shell, the TOOLSET parameter is set in the shell and does not need to be set.
PLATFORM_CLONE	Specifies the name of a new BSP. Use with custombsp target.	Any valid BSP name. Cannot contain spaces or special characters.
USER_CONFIG	Specifies the name of a file holding a user-defined configuration. See also Creating a Custom Configuration .	Any valid config file name. NOTE: A list of installed BSPs can be obtained by typing “make help” from the command line.
VERBOSE	Specifies whether verbose output should be used.	<ul style="list-style-type: none"> 0 - Disable verbose mode (default). 1 - Enable verbose mode.
NUCSYS_DIR	Target directory to create Nucleus Source Code System Workspace.	<ul style="list-style-type: none"> Any valid path.
NUCSYS_NAME	Name of the Nucleus Source Code System Workspace.	<ul style="list-style-type: none"> Any project name.

Note



If the directory (NUCSYS_DIR/NUCSYS_NAME) does not exist, it will be created before copying. If the directory does exist, an error will be reported and the copy/remaining make target will be terminated. If NUCSYS_DIR and/or NUCSYS_NAME are not specified, an error will be reported and the make target will be terminated.

Makefile Parameter Examples

The following examples show different usage of the Makefile Parameters using the Code Sourcery GNU for ARM development shell.

- Build for a minimal kernel configuration:

```
make PLATFORM=realview_eb_ct926ejs  
USER_CONFIG=config/min_kernel.config
```

- Clone a BSP:

```
make PLATFORM=realview_eb_ct926ejs PLATFORM_CLONE=myqemu custombsp
```

Note

The makefile parameters are case-sensitive.



Tip: Store Makefile parameters in environment variables to avoid entering them from the command line each time.

Build Output Directory Structure

This section describes the artifact output directory created during a build of Nucleus Source Code library.

[Table 3-3](#) describes the build artifact directory structure created when the Nucleus Source Code build is complete.

Table 3-3. Build Output Directory Structure

Directory	Description
/output	The build artifact output root.
/<toolset>	Artifacts for a given TOOLSET.
/<platform>	Artifacts for a given PLATFORM.
/<config>	Selected configuration for the default build. If the default configuration is debug, this directory is set to <i>debug</i> .
/bin	Binary executable artifacts.
/lib	Statically linked library artifacts.
/objs	Relocatable object artifacts for the given library.
.timestamp	Timestamp file for the last build.
current.imageconfig	The system configuration for this build.
current.imageconfig.html	The HTML representation of the system configuration.

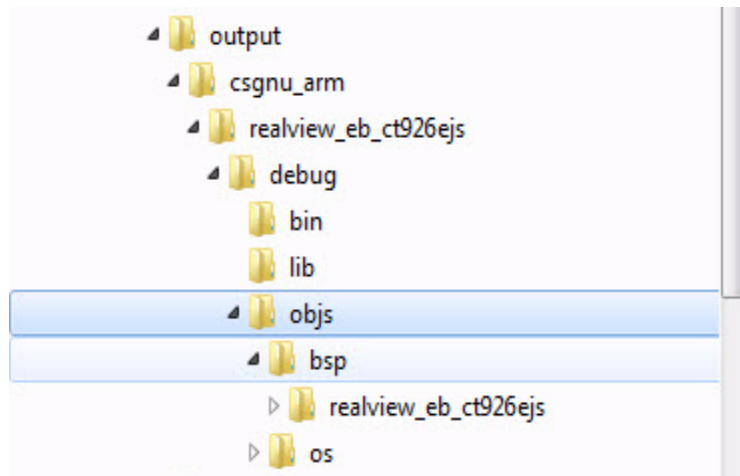
Example Build Output Directory

In this example a build has been executed for the *realview_eb_ct926ejs* platform using the following command in the provided Nucleus Source Code development shell for CodeSourcery GNU for ARM:

```
make PLATFORM=realview_eb_ct926ejs
```

Upon completion of this build, the following output structure is produced:

Figure 3-3. Platform Build Output Structure



Nucleus Source Code Configuration

Customize Nucleus Source Code using a configuration file and a special make target called *config*, see [Table 3-1](#). Use these configuration files to specify what gets built, the build-time parameters of things being built, and the runtime parameters of things being built. The following sections describe how to create and build custom configurations.

Related Topics

[Packages and Components](#)

[Structure of a Configuration File](#)

[Structure of a Configuration File](#)

[Configuration File Interpretation](#)

[Creating a Custom Configuration](#)

Packages and Components

You must have a basic understanding of terminology and the model used by the build and configuration system to successfully configure Nucleus Source Code. This section provides an overview of the package, the component terminology, and the build model.

The Nucleus Source Code build tree contains two different elements:

- Packages

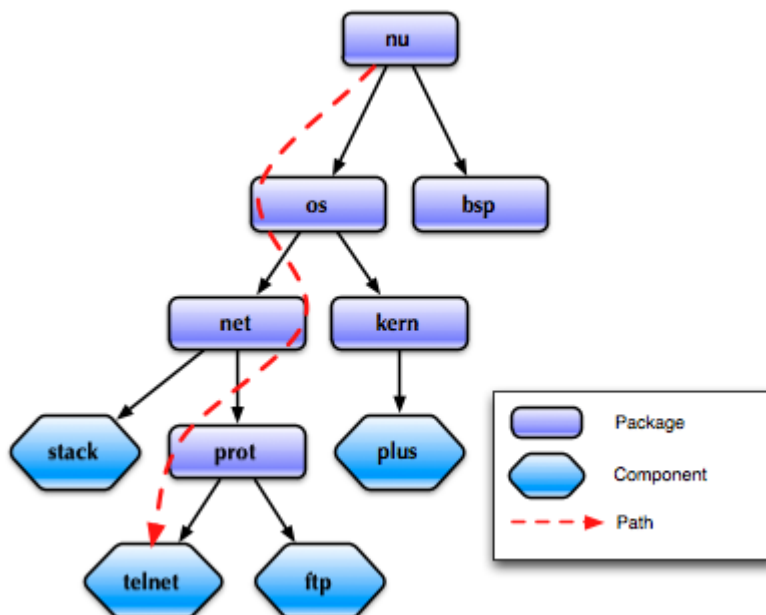
Packages are a collection of other packages and/or components. A package is analogous to a folder within a file system because it can contain other folders, files, or a combination of both.

- Components

Components are entities that contain source content. Because components are analogous to files in a file system, and are “leaves” on a tree, components cannot contain other components. Components, unlike packages, can have configuration options associated with them. A configuration option is an attribute that can be used at build or run-time to change the behavior of the component or how the component is used within the OS.

Packages and components allow a hierarchical view of Nucleus Source Code. The hierarchical structure is inferred from files stored in the build tree called *.metadata*. [Figure 3-4](#) shows a high-level depiction of the platform with a subset of the total packages and components.

Figure 3-4. Nucleus Source Code Packages and Components



In [Figure 3-4](#), *nu* is the root package. It contains the following packages:

- The *bsp* and *os* packages.
- The *os* package contains the *net* and *kern* packages.
- The *kern* package contains one component called *plus*.
- The *net* package contains a component called *stack* and a package called *prot*.
- The *prot* package contains two components named *telnet* and *ftp*.

Objects within the package/component structure are uniquely identified using the dot (.) notation. In [Figure 3-4](#), a path through the structure is shown in red starting with *nu* and ending with *telnet*. As this path is followed, the names along the path can be joined using a dot (.). In this way, the telnet component is identified by the red path and its dot name is *nu.os.net.prot.telnet*. The dot notation naming convention and package/component relationship is important to understand when configuring Nucleus Source Code.

Related Topics

[Nucleus Source Code Configuration](#)

[Structure of a Configuration File](#)

[Structure of a Configuration File](#)

[Configuration File Interpretation](#)

[Creating a Custom Configuration](#)

Structure of a Configuration File

Configuration files are the mechanism for customizing the build and run-time settings of the system. Settings defined within a configuration file override default values for Nucleus Source Code.

A configuration file is a plain text file containing a list of key/value pairs. Each line of the text file contains either white space, a comment, or a key/value pair. A comment consists of a single line beginning with the “#” character. Comments and blank lines are ignored by the configuration system.

A property key/value line has the following syntax:

```
<key> = <value>
```

A <key> is a descriptor that uniquely identifies either a package or component property. Keys are constructed using the dot notation described in the previous section, for example:

```
nu.os.kern.plus.enable
```

The key identifies the enable property of the nu.os.kern.plus component.

In the following example key/value assignment the component is turned on, potentially overriding a default system setting:

```
nu.os.kern.plus.enable=true
```

A <value> is a key-specific typed value. Allowable types include: string, boolean, integer, and float. A string is quoted using double quotes. A boolean is defined as true or false. Integer and float correspond to their respective numeric types.

The following are examples of the key/value assignment syntax:

```
# set a String
automobiles.car.sedan.manufacturer="Ford"
# set a Boolean
automobiles.car.sedan.is_convertable=false
# set an Integer
automobiles.car.sedan.available_stock=5
# set a Float
automobiles.car.sedan.mpg=24.5
```

Related Topics

[Nucleus Source Code Configuration](#)

[Packages and Components](#)

[Structure of a Configuration File](#)

[Configuration File Interpretation](#)

[Creating a Custom Configuration](#)

Configuration File Interpretation

When interpreting the contents of a configuration file, it is important to remember these invariants:

- [Key Value Pairs Applied Sequentially](#)
- [Recursive Disabling](#)
- [Recursive Enabling](#)

Key Value Pairs Applied Sequentially

The last key/value assignment for a specific key is the final assignment. This is useful when used in conjunction with the configuration file's enable/disable attributes.

For example, consider the `nu.os.net.stack` component from the overview section. The following leaves `nu.os.net.stack` disabled because the last line in the file sets the *enable* property to false:

```
nu.os.net.stack.enable=false
nu.os.net.stack.enable=true
nu.os.net.stack.enable=false
```

Recursive Disabling

Disabling a package causes all of its contained sub-packages and components to be disabled and, therefore, not included as part of the system library.

For example, if `nu.os.net` contains the network stack component `nu.os.net.stack` and the network protocols `nu.os.net.prot.ftp` and `nu.os.net.prot`, assume that everything under `nu.os.net` is enabled. The following line:

```
nu.os.net.enable=false
```

disables everything in the package `nu.os.net`. However, the following:

```
nu.os.net.enable=false
nu.os.net.stack.enable=true
```

first disables everything in `nu.os.net` and then enables just the base networking stack `nu.os.net.stack`. This is due to the combination of the recursive disable and the sequential application of assignments.

Recursive Enabling

Similar to disabling, enabling a package causes all of its contained sub-packages and components to be included in the system library. Consider the following example given for recursive disabling with the truth value negated:

```
nu.os.net.enable=true
```

This recursively enables everything under `nu.os.net` instead of disabling it as before. Similarly, the following:

```
nu.os.net.enable=true
nu.os.net.stack.enable=false
```

enables everything in the networking package except the base net stack. Although, this is syntactically possible, the rest of the networking package will not make it far without the base net stack.

Related Topics

[Nucleus Source Code Configuration](#)

[Packages and Components](#)

[Structure of a Configuration File](#)

[Structure of a Configuration File](#)

[Creating a Custom Configuration](#)

Creating a Custom Configuration

When Nucleus Source Code is reconfigured or built for the first time, two files, *current.imageconfig* and *current.imageconfig.html* are created. You can use these files to understand and customize a configuration. Table 3-4 contains information on where these files are found in the output artifacts.

- *current.imageconfig* contains the system configuration state. This file contains key/value assignment in the configuration file format. Use this file to determine the exact configuration that was used when building.
- *current.imageconfig.html* is an HTML file with descriptions and current state of all the package and components in the platform.

Table 3-4. config.html File Sections

Section	Description
Summary	This provides an overview of how the system is currently configured. It includes the toolset, platform, and time of the configuration.
Initialization	This section provides a list of run-levels and subsequent components configured for that run-level.
Package and Component Index	This section contains a table of package and component descriptions along with the current enable setting.
Component Details	This provides the component details including the source files that make up the component, configurable options, their values, and a brief description of the option.

Prerequisites

Build the platform to create *current.imageconfig.html*. See [Building Nucleus Source Code from the Command Line Interface](#).

Procedure

1. Open `<install_root>/output/<toolset>/<platform>/<build configuration>/current.imageconfig.html`. The information in the *current.imageconfig.html* file lists all the configuration options that are available for

your Nucleus library version and BSP. It tells you the current value of each option and list the valid values for options. You can use this information to customize your library configuration.

2. At the top level of the system project, create a new text file and name it `<filename>.config`.
3. Add project configuration options to `<filename>.config`. See [Structure of a Configuration File](#).

For example, if the configurable option `max_drvs` for the file system component `nu.os.stor.file.fs.fat` is found in `current.imageconfig.html`, it is possible to override this value by adding the following code to `system.config` and utilizing `system.config` when building the Nucleus library.

```
# custom platform contains at most 2 mounted storage
devicesnu.os.stor.file.fs.fat.max_drvs=2
```

4. Reconfigure and rebuild the Nucleus library using the `USER_CONFIG` parameter and `config` make target.

See [Reconfiguring an Existing BSP](#) and [Nucleus Source Code Configuration](#) for more information on creating configuration files.

Re-configure the tree:

```
make PLATFORM=realview_eb_ct926ejs
USER_CONFIG=system.config config
```

5. Rebuild everything.

```
make PLATFORM=realview_eb_ct926ejs
```

Results

This example demonstrates the first time **make** is invoked, the `config` target is selected. This forces a re-configuration of the build tree based on the supplied configuration file. The second time **make** is invoked, the Nucleus Library is built.

Notes on Dependencies

Certain dependencies exist within Nucleus. In a typical minimum system, the following components will be part of the build:

- `nu.os.kern.plus`
- `nu.os.kern.devmgr`
- `nu.os.svcs.pwr`

- nu.os.svcs.init
- nu.os.svcs.registry

Other dependencies that define the requirements between components also exist, for example:

- nu.os.net.ike requires nu.os.net.stack

These dependencies are captured in the build and configuration system metadata and guarantee dependency violations are determined prior to building the Nucleus library and linking it with a Nucleus application.

Note

A build error occurs when you attempt to build a platform when a dependency is violated.

Related Topics

[Nucleus Source Code Configuration](#)

[BSPs and Drivers](#)

[Development Workflow](#)

BSPs and Drivers

The following sections describe how to re-configure a BSP:

- [BSP Terminology](#)
- [Reconfiguring an Existing BSP](#)
- [Creating a Custom BSP](#)

BSP Terminology

- Platform
A platform is the name of the specific board (development or custom). The platform name is specified when building a Nucleus Library.
- Platform Specification
A file that describes what parts of the OS are included as part of the OS image, what devices are included on the related hardware, and which drivers are used for each device instance. Platform Specification files are found under the `<install_root>\nucleus\bsp\<platform name>` directory and follow this naming convention: `<platform name>.platform`.

- **Device**
A single instance of a hardware controller or virtual hardware controller.
- **Driver**
Software that controls one to many instances of a certain type of device.
- **BSP**
The hardware specific subset of a platform.

For instance, the Realview Emulation Baseboard BSP defines all the devices and drivers supported for this simulated hardware while the platform defines the BSP and the included OS components built using **make**.

Related Topics

[Reconfiguring an Existing BSP](#)

[Creating a Custom BSP](#)

[Nucleus Source Code Configuration](#)

[Creating a Custom Configuration](#)

[Getting Started With Nucleus Source Code](#)

Reconfiguring an Existing BSP

BSPs provided as part of Nucleus Source Code are configured for general purpose usage and can be re-configured for specific development requirements. To write a configuration file, you must understand the BSP device naming conventions. This section describes how to re-configure an existing BSP.

A configuration file is the preferred method for reconfiguring an existing BSP's settings. The basic format for naming BSP devices is as follows:

```
<platform name>.<device instance name>
```

The device names can be determined from the platform definition file. The platform definition files are located under `<install_root>\nucleus\bsp\<platform name>`. There is one file per platform, named `<platform name>.platform`. The general structure of the file looks like this:

```
platform("platform-name") {  
    ...  
    hardware {  
        device("device-one") {  
            description "What device one does."  
            enable true # OR false  
            driver "the.dot.name.of.the.driver.component"  
            runlevel 4  
        }  
    }  
}
```

```
group("options") {
    option("option-one") {
        default 1
    }

    option("option-two") {
        default 2
    }
    ...
}

device("device-two") {
    description "What device two does."
    enable true # OR false
    driver "the.dot.name.of.the.driver.component"
    runlevel 5
    ...
}
...
}
```

In this example there is one platform named *platform-name* and two devices, named *device-one* and *device-two*, respectively.

Some attributes are applied to all devices while other attributes are device-specific. The names of these attributes are determined by examining the structure of the platform definition file (or by looking at the generated *current.imageconfig.html* or *current.imageconfig* files). A dot name can be constructed by following the nesting in the file. In the previously defined template structure, *platform-name.device-one.options.option-one* is how the first device attribute is referenced.

Table 3-5 shows example attributes from the template.

Table 3-5. Device Attributes

Device Attribute Name	Description
enable	Option with a boolean value to enable or disable the device within the BSP. The default value of this attribute is true.
driver	Driver used by the device instance. This driver name is the fully-qualified component name of the driver and listing a driver “includes” this driver into the BSP image.
runlevel	Run-level at which the given device instance is initialized. The run-level entry function exists within the "driver" used by the device. The value of the run-level must be from three to 15 (after the device manager and power core services initialized)

This is an example snippet from a configuration file that re-configures the Realview Emulation Baseboard as defined in

`<install_root>\nucleus\bsp\realview_eb_ct926ejs\realview_eb_ct926ejs.platform:`

```
# Set-up ethernet0 to use static IP address (instead of DHCP)
realview_eb_ct926ejs.ethernet0.mw_settings.eth_enable_ipv4_dhcp=false
realview_eb_ct926ejs.ethernet0.mw_settings.eth_ipv4_address="192.168.0.1"

# Disable serial0
realview_eb_ct926ejs.serial0.enable=false

# Change the run-level of ethernet0 to 4
realview_eb_ct926ejs.ethernet0.runlevel=4
```

Related Topics

[BSP Terminology](#)

[Nucleus Source Code Configuration](#)

[Creating a Custom Configuration](#)

[BSPs and Drivers](#)

[Getting Started With Nucleus Source Code](#)

Creating a Custom BSP

Use this process to create a new BSP that is based on an existing BSP and supports only the drivers you need.

Prerequisites

- You must have at least one BSP in your `<install_root>\nucleus\bsp` directory. If you do not have a BSP, download a BSP and extract it to `<install_root>\nucleus\bsp`. For more information, see the *Nucleus Source Code Installation Instructions*.

Procedure

1. Open a Nucleus Source Code Development Shell from `<install_root>\nucleus\tools`.
2. To see a list of available BSPs, type:

```
make help
```

3. Create a custom BSP that is based on one of the available BSPs:

```
make PLATFORM=<platform_name> PLATFORM_CLONE=<bsp_name> custombsp
```

For example, to create a custom bsp that is based on the at91sam9263ek bsp and called custom_bsp, enter the following command:

```
make PLATFORM=at91sam9263ek PLATFORM_CLONE=mytarget custombsp
```

You will see the following in the development shell:

```
Cloning target
FUSE output/csgnu_arm/at91sam9263ek/debug/current.imageconfig
Platform = at91sam9263ek
Clone = mytarget
Would you like to include the CPU AT91SAM driver (y/n):
```

4. For each driver in the source BSP, specify to include (Y) or remove (N) the driver in the custom BSP.

Results

The custom BSP is created in `<install_root>\nucleus\bsp\<PLATFORM_CLONE>`.

To customize the BSP further, see [Reconfiguring an Existing BSP](#) and [Development Workflow](#).

To use the BSP for application development, see [Developing a Nucleus Source Code Application](#).

Nucleus Source Code introduces a common device driver framework. For assistance in developing your device driver, please visit SupportNet to obtain the application note (<http://supportnet.mentor.com>). You must have a valid support agreement to access SupportNet.


Related Topics

[Reconfiguring an Existing BSP](#)
[Nucleus Source Code Configuration](#)
[Creating a Custom Configuration](#)
[BSPs and Drivers](#)
[Getting Started With Nucleus Source Code](#)

Chapter 4

Developing a Nucleus Source Code Application

This section contains information on developing and building a Nucleus based application utilizing the Nucleus library produced in previous chapters.

 **Warning** In your applications, use only interfaces, structures, macros, and so on, that are documented within this and other Nucleus Source Code reference guide. There is no guarantee of future support or compatibility for any interface that is not documented.

Application Entry Point


The function *Application_Initialize* is the entry point into the application similar to the way *main()* is used in bare-metal designs. This function must be implemented within the application source code and will contain application initialization/start-up code

The prototype of this application initialization function is shown here:

```
VOID Application_Initialize (NU_MEMORY_POOL *sys_mem,  
                           NU_MEMORY_POOL *usys_mem) ;
```

where:

- *sys_mem* is a pointer to a system memory pool that is usually cached.
- *usys_mem* is a pointer to a system memory pool that is always uncached.

 **Note** The application initialization function was historically called prior to the scheduler running. This functionality changed with Nucleus Source Code where application initialization happens from task context as part of the run-level initialization sequence (at run-level 31). Although pre-emption is disabled for the duration of the call to *Application_Initialize*, some legacy application modifications still must occur to ensure all application initialization occurs as required.

A new hook exists to perform pre-kernel initialization operations. This allows time-sensitive or fast-boot operations to occur before kernel initialization is complete. The following is a prototype for this hook:

```
VOID Pre_Kernel_Init_Hook (NU_MEMORY_POOL *sys_mem,  
                           NU_MEMORY_POOL *usys_mem) ;
```

Applications do not need to provide an implementation of this function unless fast-boot operations are required. This function is executed before the scheduler is run in a manner similar to the legacy *Application_Initialization* routine.

Building a Nucleus Application Sample

There are a number of Nucleus sample projects included with your installation, located within the *\samples* folder.

These sample applications include Makefiles that demonstrate how to build an application utilizing output artifacts produced by the Nucleus Source Code build system.

These samples should be used as an example for integrating other build systems with the Nucleus library.

The Table 4-1 shows the various components contained in each sample that can be used as reference for creating custom application build files.

Table 4-1. Sample Build Files

Filename	Purpose	Notes
Makefile	Specifies rules, definitions, and directives to build and clean.	
app.mk	Exports environment and specifies rules to build the application.	
<demo>.config	A config file that defines an optimized system configuration for any given demo	To build “kernel demo” sample application under <install_root>\nucleus\samples\kernel\simple directory for the <i>realview_eb_ct926ejs</i> platform use the following build options on command line: CMD> PLATFORM=realview_eb_ct926ejs USER_CONFIG=config/kernel_demo.config

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File Name: upnp_wps_device.c

Description: EAP-WPS UPnP device source

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DRM core CRTC related functions

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DRM framebuffer helper functions

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The machine code generator part (this module) was written by Zoltan Herczeg

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- 4.1. Portions or all of certain Products may contain code for experimental testing and evaluation ("Beta Code"), which may not be used without Mentor Graphics' explicit authorization. Upon Mentor Graphics' authorization, Mentor Graphics grants to Customer a temporary, nontransferable, nonexclusive license for experimental use to test and evaluate the Beta Code without charge for a limited period of time specified by Mentor Graphics. This grant and Customer's use of the Beta Code shall not be construed as marketing or offering to sell a license to the Beta Code, which Mentor Graphics may choose not to release commercially in any form.
- 4.2. If Mentor Graphics authorizes Customer to use the Beta Code, Customer agrees to evaluate and test the Beta Code under normal conditions as directed by Mentor Graphics. Customer will contact Mentor Graphics periodically during Customer's use of the Beta Code to discuss any malfunctions or suggested improvements. Upon completion of Customer's evaluation and testing, Customer will send to Mentor Graphics a written evaluation of the Beta Code, including its strengths, weaknesses and recommended improvements.
- 4.3. Customer agrees to maintain Beta Code in confidence and shall restrict access to the Beta Code, including the methods and concepts utilized therein, solely to those employees and Customer location(s) authorized by Mentor Graphics to perform beta testing. Customer agrees that any written evaluations and all inventions, product improvements, modifications or developments that Mentor Graphics conceived or made during or subsequent to this Agreement, including those based partly or wholly on Customer's feedback, will be the exclusive property of Mentor Graphics. Mentor Graphics will have exclusive rights, title and interest in all such property. The provisions of this Subsection 4.3 shall survive termination of this Agreement.

5. Restrictions on Use.

- 5.1. Customer may copy Software only as reasonably necessary to support the authorized use, including archival and backup purposes. Each copy must include all notices and legends embedded in Software and affixed to its medium and container as received from Mentor Graphics. All copies shall remain the property of Mentor Graphics or its licensors. Except where embedded in Executable Code form in Customer's Product, Customer shall maintain a record of the number and location of all copies of Software, including copies merged with other software and products, and shall make those records available to Mentor Graphics upon request. Customer shall not make Products available in any form to any person other than Customer's employees, authorized manufacturers or authorized contractors, excluding Mentor Graphics competitors, whose job performance requires access and who are under obligations of confidentiality. Customer shall take appropriate action to protect the confidentiality of Products and ensure that any person permitted access does not disclose or use Products except as permitted by this Agreement. Customer shall give Mentor Graphics immediate written notice of any unauthorized disclosure or use of the Products as soon as Customer learns or becomes aware of such unauthorized disclosure or use.
- 5.2. Customer acknowledges that the Products provided hereunder may contain Source Code which is proprietary and its confidentiality is of the highest importance and value to Mentor Graphics. Customer acknowledges that Mentor Graphics may be seriously harmed if such Source Code is disclosed in violation of this Agreement. Except as otherwise permitted for purposes of interoperability as specified by applicable and mandatory local law, Customer shall not reverse-assemble, reverse-compile, reverse-engineer or in any way derive any Source Code from Products that are not provided in Source Code form. Except as embedded in Executable Code in Customer's Product and distributed in the ordinary course of business, in no event shall Customer provide Products to Mentor Graphics competitors. Log files, data files, rule files and script files generated by or for the Software (collectively "Files") constitute and/or include confidential information of Mentor Graphics. Customer may share Files with third parties, excluding Mentor Graphics competitors, provided that the confidentiality of such Files is protected by written agreement at least as well as Customer protects other information of a similar nature or importance, but in any case with at least reasonable care. Under no circumstances shall Customer use Products or allow their use for the purpose of developing, enhancing or marketing any product that is in any way competitive with Products, or disclose to any third party the results of, or information pertaining to, any benchmark.
- 5.3. Customer may not assign this Agreement or the rights and duties under it, or relocate, sublicense or otherwise transfer the Products, whether by operation of law or otherwise ("Attempted Transfer"), without Mentor Graphics' prior written consent, which shall not be unreasonably withheld, and payment of Mentor Graphics' then-current applicable relocation and/or transfer fees. Any Attempted Transfer without Mentor Graphics' prior written consent shall be a material breach of this Agreement and may, at Mentor Graphics' option, result in the immediate termination of the Agreement and/or the licenses granted under this Agreement. The terms of this Agreement, including without limitation the licensing and assignment provisions, shall be binding upon Customer's permitted successors in interest and assigns.
- 5.4. Notwithstanding any provision in an OSS license agreement applicable to a component of the Sourcery CodeBench Software that permits the redistribution of such component to a third party in Source Code or binary form, Customer may not use any Mentor Graphics trademark, whether registered or unregistered, in connection with such distribution, and may not recompile the Open Source Software components with the --with-pkgversion or --with-bugurl configuration options that embed Mentor Graphics' trademarks in the resulting binary.
- 5.5. The provisions of this Section 5 shall survive the termination of this Agreement.

6. Support Services.

- 6.1. Except as described in Sections 6.2, 6.3 and 6.4 below, and unless otherwise specified in any applicable Addenda to this Agreement, to the extent Customer purchases support services, Mentor Graphics will provide Customer updates and technical support for the number of Developers at the Development Location(s) for which support is purchased in accordance with Mentor Graphics' then-current End-User Software Support Terms located at <http://supportnet.mentor.com/about/legal/>.
- 6.2. To the extent Customer purchases support services for Sourcery CodeBench Software, support will be provided solely in accordance with the provisions of this Section 6.2. Mentor Graphics shall provide updates and technical support to Customer as described herein only on the condition that Customer uses the Executable Code form of the Sourcery CodeBench Software for internal use only and/or distributes the Redistributable Components in Executable Code form only (except as provided in a separate redistribution agreement with Mentor Graphics or as required by the applicable Open Source license). Any other distribution by Customer of the Sourcery CodeBench Software (or any component thereof) in any form, including distribution permitted by the applicable Open Source license, shall automatically terminate any remaining support term. Subject to the foregoing and the payment of support fees, Mentor Graphics will provide Customer updates and technical support for the number of Developers at the Development Location(s) for which support is purchased in accordance with Mentor Graphics' then-current Sourcery CodeBench Software Support Terms located at <http://www.mentor.com/codebench-support-legal>.
- 6.3. To the extent Customer purchases support services for Sourcery VSIPL++, Mentor Graphics will provide Customer updates and technical support for the number of Developers at the Development Location(s) for which support is purchased solely in accordance with Mentor Graphics' then-current Sourcery VSIPL++ Support Terms located at <http://www.mentor.com/vsipl-support-legal>.
- 6.4. To the extent Customer purchases support services for Mentor Embedded Linux, Mentor Graphics will provide Customer updates and technical support for the number of Developers at the Development Location(s) for which support is purchased

solely in accordance with Mentor Graphics' then-current Mentor Embedded Linux Support Terms located at <http://www.mentor.com/mel-support-legal>.

7. **Third Party and Open Source Software.** Products may contain Open Source Software or code distributed under a proprietary third party license agreement. Please see applicable Products documentation, including but not limited to license notice files, header files or source code for further details. Please see the applicable Open Source Software license(s) for additional rights and obligations governing your use and distribution of Open Source Software. Customer agrees that it shall not subject any Product provided by Mentor Graphics under this Agreement to any Open Source Software license that does not otherwise apply to such Product. In the event of conflict between the terms of this Agreement, any Addenda and an applicable OSS or proprietary third party agreement, the OSS or proprietary third party agreement will control solely with respect to the OSS or proprietary third party software component. The provisions of this Section 7 shall survive the termination of this Agreement.
8. **Limited Warranty.**
 - 8.1. Mentor Graphics warrants that during the warranty period its standard, generally supported Products, when properly installed, will substantially conform to the functional specifications set forth in the applicable user manual and/or specification. Mentor Graphics does not warrant that Products will meet Customer's requirements or that operation of Products will be uninterrupted or error free. The warranty period is 90 days starting on the 15th day after delivery or upon installation, whichever first occurs. Customer must notify Mentor Graphics in writing of any nonconformity within the warranty period. For the avoidance of doubt, this warranty applies only to the initial shipment of Products under an Order and does not renew or reset, for example, with the delivery of (a) Software updates or (b) authorization codes. This warranty shall not be valid if Products have been subject to misuse, unauthorized modification or improper installation. MENTOR GRAPHICS' ENTIRE LIABILITY AND CUSTOMER'S EXCLUSIVE REMEDY SHALL BE, AT MENTOR GRAPHICS' OPTION, EITHER (A) REFUND OF THE PRICE PAID UPON RETURN OF THE PRODUCTS TO MENTOR GRAPHICS OR (B) MODIFICATION OR REPLACEMENT OF THE PRODUCTS THAT DO NOT MEET THIS LIMITED WARRANTY, PROVIDED CUSTOMER HAS OTHERWISE COMPLIED WITH THIS AGREEMENT. MENTOR GRAPHICS MAKES NO WARRANTIES WITH RESPECT TO: (A) SERVICES; OR (B) PRODUCTS PROVIDED AT NO CHARGE, WHICH ARE PROVIDED "AS IS" UNLESS OTHERWISE AGREED IN WRITING.
 - 8.2. THE WARRANTIES SET FORTH IN THIS SECTION 8 ARE EXCLUSIVE TO CUSTOMER AND DO NOT APPLY TO ANY END-USER. NEITHER MENTOR GRAPHICS NOR ITS LICENSORS MAKE ANY OTHER WARRANTIES, EXPRESS, IMPLIED, OR STATUTORY, WITH RESPECT TO PRODUCTS OR OTHER MATERIAL PROVIDED UNDER THIS AGREEMENT. MENTOR GRAPHICS AND ITS LICENSORS SPECIFICALLY DISCLAIM ALL IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT OF INTELLECTUAL PROPERTY.
9. **LIMITATION OF LIABILITY.** EXCEPT WHERE THIS EXCLUSION OR RESTRICTION OF LIABILITY WOULD BE VOID OR INEFFECTIVE UNDER APPLICABLE LAW, AND EXCEPT FOR EITHER PARTY'S BREACH OF ITS CONFIDENTIALITY OBLIGATIONS, CUSTOMER'S BREACH OF LICENSING TERMS OR CUSTOMER'S OBLIGATIONS UNDER SECTION 10, IN NO EVENT SHALL: (A) EITHER PARTY OR ITS RESPECTIVE LICENSORS BE LIABLE FOR INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES (INCLUDING LOST PROFITS OR SAVINGS) WHETHER BASED ON CONTRACT, TORT OR ANY OTHER LEGAL THEORY, EVEN IF SUCH PARTY OR ITS LICENSORS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES; AND (B) EITHER PARTY OR ITS RESPECTIVE LICENSORS' LIABILITY UNDER THIS AGREEMENT, INCLUDING, FOR THE AVOIDANCE OF DOUBT, LIABILITY FOR ATTORNEYS' FEES OR COSTS, EXCEED THE GREATER OF THE FEES PAID OR OWING TO MENTOR GRAPHICS FOR THE PRODUCT OR SERVICE GIVING RISE TO THE CLAIM OR \$500,000 (FIVE HUNDRED THOUSAND U.S. DOLLARS). NOTWITHSTANDING THE FOREGOING, IN THE CASE WHERE NO AMOUNT WAS PAID, MENTOR GRAPHICS AND ITS LICENSORS SHALL HAVE NO LIABILITY FOR ANY DAMAGES WHATSOEVER. THE PROVISIONS OF THIS SECTION 9 SHALL SURVIVE THE TERMINATION OF THIS AGREEMENT.
10. **Hazardous Applications.**
 - 10.1. Customer agrees that Mentor Graphics has no control over Customer's testing or the specific applications and use that Customer will make of Products. Mentor Graphics Products are not specifically designed for use in the operation of nuclear facilities, aircraft navigation or communications systems, air traffic control, life support systems, medical devices or other applications in which the failure of Mentor Graphics Products could lead to death, personal injury, or severe physical or environmental damage ("Hazardous Applications").
 - 10.2. CUSTOMER ACKNOWLEDGES IT IS SOLELY RESPONSIBLE FOR TESTING PRODUCTS USED IN HAZARDOUS APPLICATIONS AND SHALL BE SOLELY LIABLE FOR ANY DAMAGES RESULTING FROM SUCH USE. NEITHER MENTOR GRAPHICS NOR ITS LICENSORS SHALL BE LIABLE FOR ANY DAMAGES RESULTING FROM OR IN CONNECTION WITH THE USE OF PRODUCTS IN ANY HAZARDOUS APPLICATIONS.
 - 10.3. CUSTOMER AGREES TO INDEMNIFY AND HOLD HARMLESS MENTOR GRAPHICS AND ITS LICENSORS FROM ANY CLAIMS, LOSS, COST, DAMAGE, EXPENSE OR LIABILITY, INCLUDING REASONABLE ATTORNEYS' FEES, ARISING OUT OF OR IN CONNECTION WITH THE USE OF PRODUCTS AS DESCRIBED IN SECTION 10.1.
 - 10.4. THE PROVISIONS OF THIS SECTION 10 SHALL SURVIVE THE TERMINATION OF THIS AGREEMENT.

11. Infringement.

- 11.1. Mentor Graphics will defend or settle, at its option and expense, any action brought against Customer in the United States, Canada, Japan, or member state of the European Union which alleges that any standard, generally supported Product acquired by Customer hereunder infringes a patent or copyright or misappropriates a trade secret in such jurisdiction. Mentor Graphics will pay any costs and damages finally awarded against Customer that are attributable to the action. Customer understands and agrees that as conditions to Mentor Graphics' obligations under this section Customer must: (a) notify Mentor Graphics promptly in writing of the action; (b) provide Mentor Graphics all reasonable information and assistance to settle or defend the action; and (c) grant Mentor Graphics sole authority and control of the defense or settlement of the action.
 - 11.2. If a claim is made under Subsection 11.1 Mentor Graphics may, at its option and expense, and in addition to its obligations under Section 11.1, either (a) replace or modify the Product so that it becomes noninfringing; or (b) procure for Customer the right to continue using the Product. If Mentor Graphics determines that neither of those alternatives is financially practical or otherwise reasonably available, Mentor Graphics may require the return of the Product and refund to Customer any purchase price or license fee(s) paid.
 - 11.3. Mentor Graphics has no liability to Customer if the claim is based upon: (a) the combination of the Product with any product not furnished by Mentor Graphics, where the Product itself is not infringing; (b) the modification of the Product other than by Mentor Graphics or as directed by Mentor Graphics, where the unmodified Product would not infringe; (c) the use of the infringing Product when Mentor Graphics has provided Customer with a current unaltered release of a non-infringing Product of substantially similar functionality in accordance with Subsection 11.2(a); (d) the use of the Product as part of an infringing process; (e) a product that Customer makes, uses, or sells, where the Product itself is not infringing; (f) any Product provided at no charge; (g) any software provided by Mentor Graphics' licensors who do not provide such indemnification to Mentor Graphics' customers; (h) Open Source Software, except to the extent that the infringement is directly caused by Mentor Graphics' modifications to such Open Source Software; or (i) infringement by Customer that is deemed willful. In the case of (i), Customer shall reimburse Mentor Graphics for its reasonable attorneys' fees and other costs related to the action.
 - 11.4. THIS SECTION 11 IS SUBJECT TO SECTION 9 ABOVE AND STATES: (A) THE ENTIRE LIABILITY OF MENTOR GRAPHICS AND ITS LICENSORS AND (B) CUSTOMER'S SOLE AND EXCLUSIVE REMEDY, WITH RESPECT TO ANY ALLEGED PATENT OR COPYRIGHT INFRINGEMENT OR TRADE SECRET MISAPPROPRIATION BY ANY PRODUCT PROVIDED UNDER THIS AGREEMENT.
12. **Termination and Effect of Termination.** If a Software license was provided for limited term use, such license will automatically terminate at the end of the authorized Term.
- 12.1. Termination for Breach. This Agreement shall remain in effect until terminated in accordance with its terms. Mentor Graphics may terminate this Agreement and/or any licenses granted under this Agreement, and Customer will immediately discontinue use and distribution of Products, if Customer (a) commits any material breach of any provision of this Agreement and fails to cure such breach upon 30-days prior written notice; or (b) becomes insolvent, files a bankruptcy petition, institutes proceedings for liquidation or winding up or enters into an agreement to assign its assets for the benefit of creditors. Termination of this Agreement or any license granted hereunder will not affect Customer's obligation to pay for Products shipped or licenses granted prior to the termination, which amounts shall be payable immediately upon the date of termination. For the avoidance of doubt, nothing in this Section 12 shall be construed to prevent Mentor Graphics from seeking immediate injunctive relief in the event of any threatened or actual breach of Customer's obligations hereunder.
 - 12.2. Effect of Termination. Upon termination of this Agreement, the rights and obligations of the parties shall cease except as expressly set forth in this Agreement. Upon termination or expiration of the Term, Customer will discontinue use and/or distribution of Products, and shall return Hardware and either return to Mentor Graphics or destroy Software in Customer's possession, including all copies and documentation, and certify in writing to Mentor Graphics within ten business days of the termination date that Customer no longer possesses any of the affected Products or copies of Software in any form, except to the extent an Open Source Software license conflicts with this Section 12.2 and permits Customer's continued use of any Open Source Software portion or component of a Product. Upon termination for Customer's breach, an End-User may continue its use and/or distribution of Customer's Product so long as: (a) the End-User was licensed according to the terms of this Agreement, if applicable to such End-User, and (b) such End-User is not in breach of its agreement, if applicable, nor a party to Customer's breach.
13. **Export.** The Products provided hereunder are subject to regulation by local laws and United States government agencies, which prohibit export or diversion of certain products, information about the products, and direct or indirect products thereof, to certain countries and certain persons. Customer agrees that it will not export Products in any manner without first obtaining all necessary approval from appropriate local and United States government agencies. Customer acknowledges that the regulation of product export is in continuous modification by local governments and/or the United States Congress and administrative agencies. Customer agrees to complete all documents and to meet all requirements arising out of such modifications.
14. **U.S. Government License Rights.** Software was developed entirely at private expense. All Software is commercial computer software within the meaning of the applicable acquisition regulations. Accordingly, pursuant to US FAR 48 CFR 12.212 and DFAR 48 CFR 227.7202, use, duplication and disclosure of the Software by or for the U.S. Government or a U.S. Government subcontractor is subject solely to the terms and conditions set forth in this Agreement, except for provisions which are contrary to applicable mandatory federal laws.

15. **Third Party Beneficiary.** For any Products licensed under this Agreement and provided by Customer to End-Users, Mentor Graphics or the applicable licensor is a third party beneficiary of the agreement between Customer and End-User. Mentor Graphics Corporation, Mentor Graphics (Ireland) Limited, and other licensors may be third party beneficiaries of this Agreement with the right to enforce the obligations set forth herein.
16. **Review of License Usage.** Customer will monitor the access to and use of Software. With prior written notice, during Customer's normal business hours, and no more frequently than once per calendar year, Mentor Graphics may engage an internationally recognized accounting firm to review Customer's software monitoring system, records, accounts and sublicensing documents deemed relevant by the internationally recognized accounting firm to confirm Customer's compliance with the terms of this Agreement or U.S. or other local export laws. Such review may include FlexNet (or successor product) report log files that Customer shall capture and provide at Mentor Graphics' request. Customer shall make records available in electronic format and shall fully cooperate with data gathering to support the license review. Mentor Graphics shall bear the expense of any such review unless a material non-compliance is revealed. Mentor Graphics shall treat as confidential information all Customer information gained as a result of any request or review and shall only use or disclose such information as required by law or to enforce its rights under this Agreement. Such license review shall be at Mentor Graphics' expense unless it reveals a material underpayment of fees of five percent or more, in which case Customer shall reimburse Mentor Graphics for the costs of such license review. Customer shall promptly pay any such fees. If the license review reveals that Customer has made an overpayment, Mentor Graphics has the option to either provide the Customer with a refund or credit the amount overpaid to Customer's next payment. The provisions of this Section 16 shall survive the termination of this Agreement.
17. **Controlling Law, Jurisdiction and Dispute Resolution.** This Agreement shall be governed by and construed under the laws of the State of California, USA, excluding choice of law rules. All disputes arising out of or in relation to this Agreement shall be submitted to the exclusive jurisdiction of the state and federal courts of California, USA. Nothing in this section shall restrict Mentor Graphics' right to bring an action (including for example a motion for injunctive relief) against Customer or its Subsidiary in the jurisdiction where Customer's or its Subsidiary's place of business is located. The United Nations Convention on Contracts for the International Sale of Goods does not apply to this Agreement.
18. **Severability.** If any provision of this Agreement is held by a court of competent jurisdiction to be void, invalid, unenforceable or illegal, such provision shall be severed from this Agreement and the remaining provisions will remain in full force and effect.
19. **Miscellaneous.** This Agreement contains the parties' entire understanding relating to its subject matter and supersedes all prior or contemporaneous agreements, including but not limited to any purchase order terms and conditions. This Agreement may only be modified in writing, signed by an authorized representative of each party. Waiver of terms or excuse of breach must be in writing and shall not constitute subsequent consent, waiver or excuse.