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File Description

The zip files 'device'_encrypted.zip or 'device'_unencrypted.zip contains the following files.

'device'.inc Device Netlist

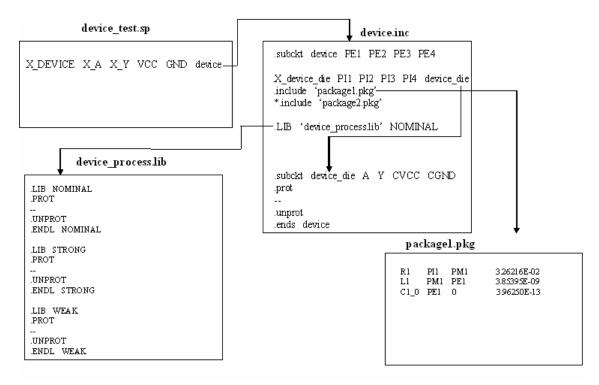
'package'.pkg Package R, L and C data

'device'_process.lib Process Models (Nominal, Strong and Weak)

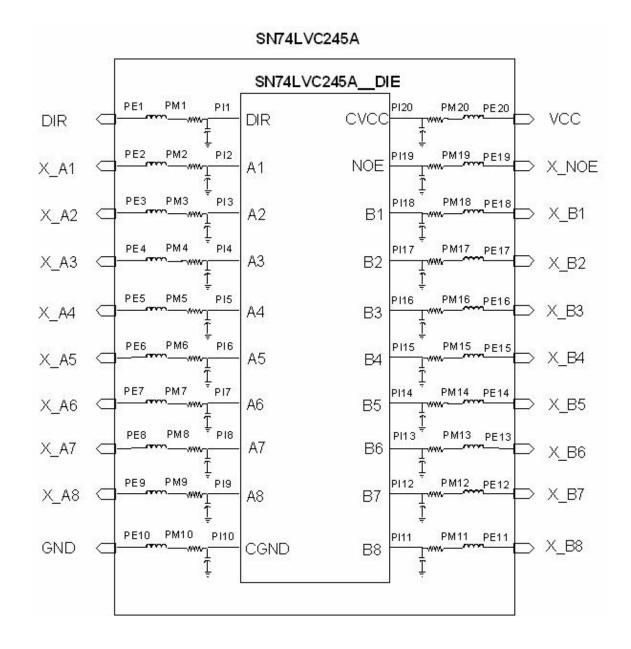
Refer to the datasheet for node descriptions. The file hierarchy and example of package connections with the device die are shown in following figures.

'device'_test.sp is an example spice deck file for the transient simulation. This file calls the 'device' sub-circuit (i.e. .subckt 'device') which is defined in the 'device'.inc file. The parsing nodes in the call for 'device' subckt are named according to the pin names in the datasheet. The device subckt includes the definition of the netlist for the die, package (example soic16.pkg, tssop16.pkg etc) and process model calls (i.e. NOMINAL, STRONG or WEAK). In the 'device' subckt, PE refers to the external node, PI and PM refer to the internal nodes of the device. PI is the node name of the internal die. The netlist for the die of the device is defined under the subckt 'device'_die. The 'device'_die subckt is called by the X_'device'_die statement with PI as the node name. The package lumped resistance (R), inductance (L) and capacitance (C) are connected to the PE, PM and PI nodes as shown in the figure.

File Hierarchy



Example of Pin Mapping



Instructions

1) To use a specific package remove the comment character (*) from the package call in .inc file.

EXAMPLE:

To Use SOIC package remove comment character (*) from soic16.pkg and include comment character to the remaining packages.

```
.include 'soic16.pkg'
*.include 'tssop16.pkg'
*.include 'sssop16.pkg'
```

2) To use a specific process model change the library model call in .inc file

EXAMPLE:

To Use the Strong Process Model change the library call to STRONG

.lib 'sn74cb3q3257_process.lib' NOMINAL

change to

.lib 'sn74cb3q3257_process.lib' STRONG

NOTE:

If the process models are level 37 you will need a license patch from your simulation vendor. Check the 'device'_process.lib for the level information. Please provide the following information to the model provider. TI will request the vendor to send you a license file.

- Company name
- Company address
- Contact name
- Contact e-mail
- Host id of licenses server

The contact name and e-mail of the person in your company responsible for vendor licenses.

The host id is the identification of the server which will contain the license file. It is obtained on Sun machine by command "host id" and on an HP machine by command "uname -i".