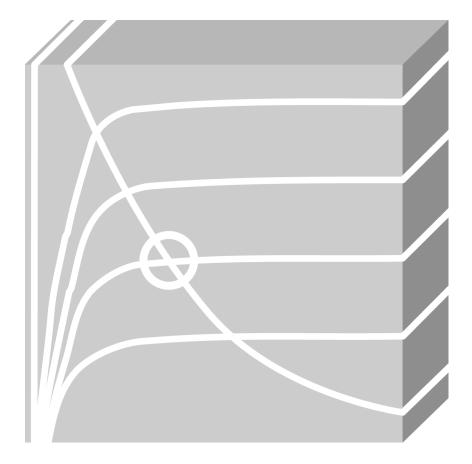


Creating a Project Archive



OrCAD Capture / PSpice / Allegro DE CIS Application Note | V2



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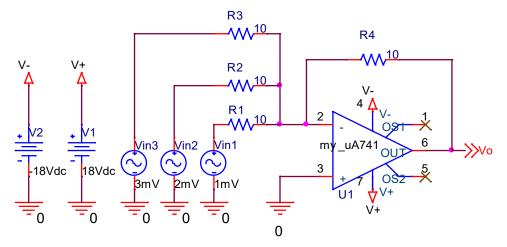


1 Introduction

When the project manager window is active, you can save a new or existing project, design, or library. You can save the project and all the related files (design, library, output files, and referenced projects) in a different directory and also create a zip file of this directory for archival purposes. You can also specify any additional files or directories that you may want to be archived along with your project files. For example, you can archive external designs, global PSpice model libraries or data sheets.

2 Demo Project

The example circuit we would like to build up is a simple adder. The circuit in the demo project **adder.opj** is illustrated below.



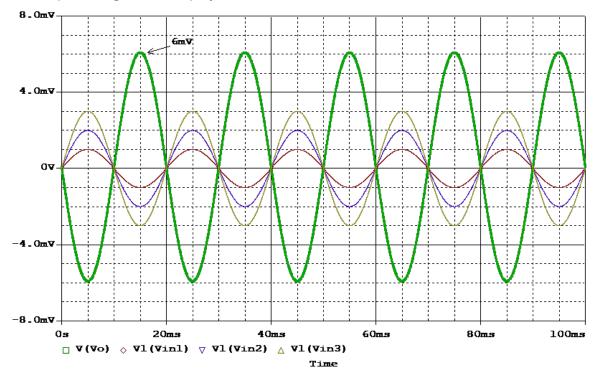
The operational amplifier which we use for the adder is uA741. The output voltage Vo can be calculated with the following function:

$$Vo = -R4 \bullet \left(\frac{Vin1}{R1} + \frac{Vin2}{R2} + \frac{Vin3}{R3}\right)$$

The frequency for the input voltage sources Vin1, Vin2 and Vin3 is set to 50Hz. **Run** the simulation for **100ms**, for example, to get 5 signal periods.



The output voltage **Vo** is displayed as follows:



Because R4 = R1 = R2 = R3, hence Vo = - (Vin1+Vin2+Vin3). In the above diagram you can see that the peak value of Vo is 6mV, which is equal to the negative sum of the minimum amplitudes of Vin1, Vin2 and Vin3.

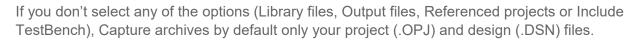
3 Archive the Project

You can save this project and all the related files in a different directory. To do this

- Make sure that the project manager window is active, the schematic pages and other related files are not open.
- From the menu bar click File > Archive Project... The Archive Project dialog box appears:

Archive Project	×
🔽 Library files 🛛 Include TestBench	ОК
🔽 Output files	Cancel
Referenced projects	Help
Archive directory:	
C:\FLOWCAD\my_Archiev_test\	
Create single archive file	
File name: adder-2013-11-27T10-35.zip	Add more files >>

Select the files you want to archive with your project.



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Note

For PSpice projects, the simulation profiles and local files (.LIB, .STL, .INC) will all be archived along with the project.

For example, if you have configured the PSpice model library adder.lib (see the following diagram) which contains the PSpice model my_ua741, the adder.lib will be archived along with the project.

General	Analysis	Configuration Files	Options	Data Collection	Probe Window	
Category:		Filename:				
Stimulus		.\adder.lib				Browse
Library Include		Configured Files				
		.\adder.lib				Add as Global
🖉 Update I	ndex	nom.lib*				Add as Global
						Add to Design
						Add to Profile
						Edit
						Change
		Library Path				
		"C:\Cadence\SPB	_17.2\tools\F	PSpice\Library"		Browse

The Output files option also archives simulation output files such as the waveform file (.DAT) and the output file (.OUT) for PSpice projects.

In the field **Archive directory** assign a directory, e.g. F:\Application Notes\adder, to which you will save your files.

Click **OK** in the Archive Project dialog box. Capture archives your project with all the selected files to the specified directory and displays information/errors in the Session Log.

4 Create a Zip Archive File

Sometimes you need a single archive file for your project. Using the same processes described in chapter 3 you can select the **Create single archive file** check box to activate the **File name** text box.

Note

The default file name for the zip archive file is **projectname-current date**. The file extension (.zip) is automatically added to the zip archive file.



Archive Project	×
☑ Library files ☑ Include TestBench	ОК
 Output files Referenced projects 	Cancel
Archive directory: C:\FLOWCAD\my_Archiev_test\	
Create single archive file	
File name: adder-2013-11-27T10-35.zip	Add more files >>

Click **OK**, Capture zips all the files in the specified directory and generates a zip file with .zip extension. The Session Log displays all the events that occur during the archiving process and report whether the process was completed successfully or with errors.

5 Add Additional Files and Directories to the Archive

 Click on Add more files in the Archive Project dialog box in order to add more files e.g. data sheets or directories to the archive. The expanded Archive Project dialog box is displayed as follows:

Archive Project	×	
 Library files Output files Referenced projects Archive directory: C:\FLOWCAD\my_Archiev_test\ 	OK Cancel Help	
Create single archive file File name: adder-2013-11-27T10-35.zip Browse for: Files Additional Files/Directories: C:\Flowcad\My_Archive\ua741.pdf	Add more files <<	Browse for: Files ✓ Directories ✓ Jitional Fil Files

• Select an option from the **Browse for** list box. Select the **Directories** option to add directories or the Files option to add more files to your archive. As an example, we would

like to add the data sheet of the operational amplifier ua741 which is used in the adder project.

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- In the Browse for list box select Files.
- Click the button (in above diagram a) to add additional files.
- Click the button (in above diagram b), the **Select Files** window pops up, find the data sheet ua741.pdf and open it.
- Click **OK** in the **Archive Project** dialog box. Capture archives your project with all the selected additional files to the specified directory. The current working directory does not change to the newly set archive directory.

Note

The files and directories you add using the Additional Files/Directories list are added to the archive directory under a separate sub-directory called Additional files.

6 Bibliography

- [1] PSpice User's Guide, Cadence
- [2] OrCAD Capture User's Guide, Cadence