

README for the PES_TOOLS Demonstration

To run this example perform the following steps:

1. Create a XML Manifest file of for the contents of the PES Library at **PES_TOOLS/lib_manifest.xml**
`cd PES_TOOLS/tools/build_manifest`
`./CLEAN`
`./BUILD_AND_RUN`
*#At this point the manifest file **PES_TOOLS/lib_manifest.xml** is deleted and rebuilt using the contents of the **PES_TOOLS/lib** directory*
2. Run the **XML Decorator** program to generate the source files for the program described in **PES_TOOLS/tools/xml_decorator/program.xml**
`cd PES_TOOLS/tools/xml_decorator/program.xml`
`./CLEAN`
`./BUILD_AND_RUN`
*#At this point the the XML Program file **PES_TOOLS/tools/xml_decorator/program.xml** is read and the appropriate target source files are generated in **PES_TOOLS/tools/target_directory**. The contents of directory **PES_TOOLS/tools/target_processor_0** are copied into directory **PES_TOOLS/tools/target_processor** with auxiliary files for multithreaded real-time operation.*
3. Build the target real-time processor in directory **PES_TOOLS/tools/target_processor**
`cd PES_TOOLS/tools/target_processor`
`./CLEAN`
`./BUILD_AND_RUN`
*#At this point the the XML Program file **PES_TOOLS/tools/xml_decorator/program.xml** is read and the appropriate target source files are generated in **PES_TOOLS/tools/target_directory**. The contents of directory **PES_TOOLS/tools/target_processor_0** are copied into directory **PES_TOOLS/tools/target_processor** with auxiliary files for multithreaded real-time operation.*