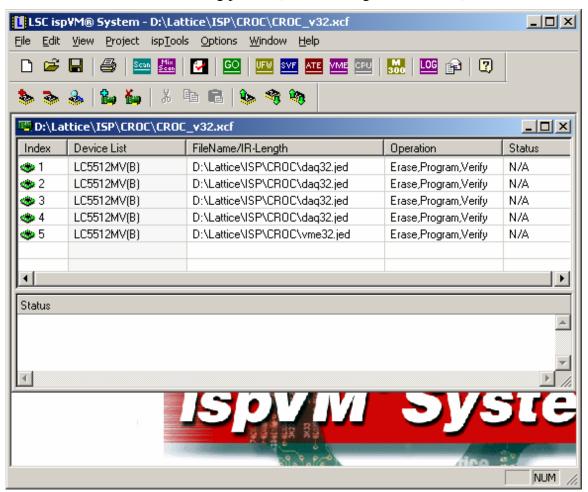
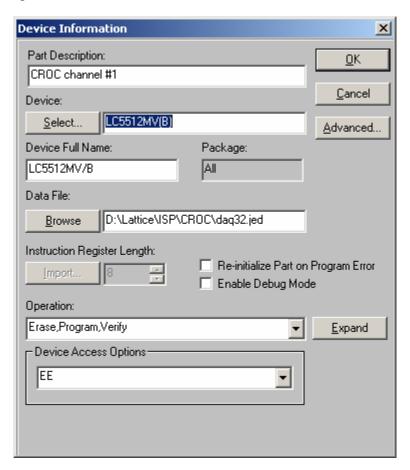
## Instructions for updating CROC/CRIM firmware

- 1. Obtain JEDEC (\*.jed) and configuration (\*.xcf) files for Lattice ISP programming cable. Two JEDEC files are needed for full CROC firmware update, and three JEDEC files are needed for full CRIM update.
- 2. Place all files in a convenient location (e.g. C:\Lattice\ISP\CROC or C:\Lattice\ISP\CRIM).
- 3. With the VME crate power **OFF** insert the module you want to program and connect ISP programming cable. **Important:** Observe pin 1 on the cable connector and the VME board. Turn **ON** the VME crate.
- 4. Start Lattice ispVM System software. Go to the **File** menu and click on **Open** command. Select CROC or CRIM configuration file from the location you have selected in step 2.
- 5. You will see the following picture (CROC configuration shown):



6. Double click on each line in Filename/IR-Length column. You will see the following Device Information menu:



- 7. Using **Browse** button locate JEDEC files you saved in step 2. Select the same file name as in original configuration. Click OK. **Important:** Failure to do this properly will result in not working module. Repeat for each line in the configuration file.
- 8. Using **Save As** command from the **File** menu, save new configuration file with a different name. Keep original configuration file for a reference.
- 9. Click **GO** button in the tool bar. The programming process will start. After it finished verify that all lines in the Status column have green light (**PASS**).
- 10. Turn **OFF** the VME crate and disconnect ISP programming cable. **Important:** Do not disconnect programming cable while the VME module is powered.