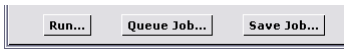
What Are Job Files?

The TNTmips Job Processing System uses a simple XML text file structure to record all of the processing parameters needed for a particular job. A job file specifies the TNTmips process to run, the input and output objects or files, and the necessary job-specific processing parameters and their values. For example, a job file to export a raster object to JPEG (sample shown in box below) specifies the export process, input raster, the name and path of the output JPEG file, and values for other parameters for the JPEG export procedure.

Properly-formatted job files are automatically created when you press the Queue Jobs or Save Jobs button in a TNTmips process window. These files are automatically written to the Job directory for the version of TNTmips you are using.



You can also use job files to run custom geospatial processes executed by a TNT geospatial processing script (SML). Such a job file (example shown in the box below) must specify the SML process script to run and the names and values of the job-specific script variables. You can create an I/O program to provide a user interface for selecting the input objects for one or more jobs, setting the processing parameter values, and writing out the job files. The I/O program could be another TNT script (see the Technical Guide entitled *System: Custom Job Processing with Geospatial Scripts*), a web client (such as a web page with an HTML form and JavaScript to write the job file; see the TechGuide entitled *System: TNTmips Job Processing System*) or other custom program. Using an SML script for the I/O program simplifies matters because SML provides simple methods to automatically create and populate job files with the proper XML structure and write them to the Job directory. If you set up a custom program or web client for this purpose, it must include manual methods to write job files that follow the proper XML format shown by the example below.

Sample job file automatically created by a TNTmips process (Export in this example) by pressing its Queue Job or Save Job button.

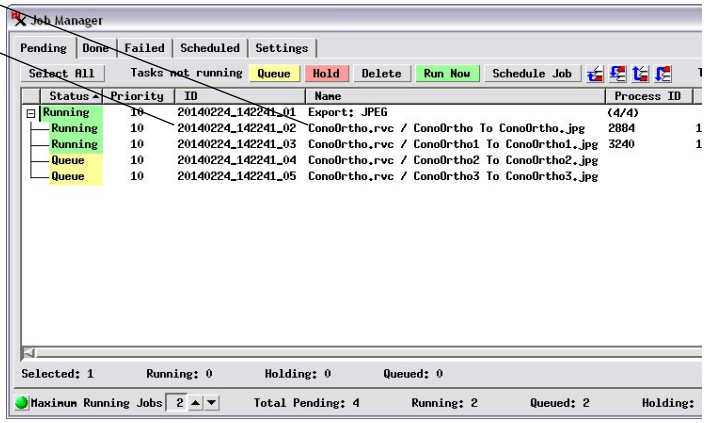
Job Description shown in the Job Manager

Job ID shown in the Job Manager

TNTmips process to run

List of processing parameter values that were set in the process dialog

```
<?xml version="1.0"?>
<job id="20140224_142241_02">
   <desc>Export ConoOrtho.rvc / ConoOrtho To ConoOrtho.jpg</desc>
   <process>tntdisp exportjob</process>
   <version>80</version>
   <priority>10</priority>
   <schedule/>
   <groupid>20140224_142241_01</groupid>
   <runparms>
      <input id="Input">
         <filepath>C:\TG80\JobFiles\ConoOrtho.rvc</filepath>
         <objectpath>ConoOrtho.RASTER</objectpath>
      </input>
      <output id="Output">
         <filepath>!PC!C:\TG80\JobFiles\ConoOrtho.jpg</filepath>
      </output>
      <variable name="Format">
         <value>3800</value>
      </variable>
      <variable name="GeorefType">
         <value>1</value>
      </variable>
      <variable name="DoSingleFile">
         <value>0</value>
      </variable>
      <variable name="NullExportMode">
         <value>0</value>
      </variable>
      <variable name="DoContrast">
         <value>0</value>
      </variable>
      <variable name="CharEncoding">
         <value>0</value>
      </variable>
      <variable name="CompressQuality">
         <value>75</value>
      </variable>
   </runparms>
</job>
```



Sample job file to run an SML Process script. This job file would be created by an SML I/O script, Web application, other program that provides an interface for the user to set processing parameters.

Path for the SML script to be run

Values for variables used in the processing script

```
<?xml version="1.0"?>
<job id="20140115_113435_00">
   <desc>Convert m_3110901_ne_12_1_20070625.tif to GeoJP2</desc>
   <process>tntdisp smljob</process>
   <version>80</version>
   <priority>2</priority>
   <runparms>
      <script>F:\SML\TIFFtoJP2\TiffToJP2fromJob.sml</script>
      <variable name="inputPath$">
         <value>!PC!F:\Arizona\AzTIFF\m_3110901_ne_12_1_20070625.tif</value>
      </variable>
      <variable name="outputDir$">
         <value>!PC!F:\Arizona\AzJP2/</value>
      </variable>
      <variable name="compType$">
         <value>user</value>
      </variable>
      <variable name="compRatio">
         <value>15.000000</value>
      </variable>
   </runparms>
</job>
```