

Although the error fixes incorporated in the Validate Tileset process result in a tileset that conforms to its description in its TSD file, you can choose to remake the TSD file as well to update it to the current TSD format version. You can also remake all auxiliary files, which include all of the standard HTML files that enable the tileset to be immediately viewed in the associated geobrowser, to incorporate any newly added tools and features.

As part of the development of the TNTmips processes that create, render, and merge tilesets, MicroImages has created many large tilesets and published them for your use. Our extensive use of these processes made it clear that while tilesets seem simple, once created they are like black boxes: it is very hard to detect what is inside by looking in from the outside. The Validate Tileset and Tileset Manager processes evolved to support this large effort, and these processes are now available to support your own activities with tilesets. A large tileset takes a considerable amount of computer time to prepare. The problems addressed and repaired in the Validate Tilesets process can save damaged tilesets and improve the performance of apparently valid tilesets. Identifying various error conditions in large tilesets also enabled MicroImages to make adjustments in the TNTmips tileset processes to avoid creating these conditions.

Validate Tileset Log G:\CacheCntyUtah\CacheUT_CIR2006\CacheUT_CIR2006fix.log
Tileset: G:\CacheCntyUtah\CacheUT_CIR2006\CacheUT_CIR2006.tsd
2010-08-27 13:09:05

Errors:
10 Fully opaque PNGs

Time -
Reading of tiles: 5.3 minutes
Scanning of tile data: 47 seconds
Scanning of tileset structure: 21 seconds
Total: 6.4 minutes

Level 17
Total Errors: 0

Level 16
Total Errors: 2
Fully opaque PNGs
Errors: 2
G:\CacheCntyUtah\CacheUT_CIR2006\CacheUT_CIR2006_Tiles\16\24328\12456.png(136.42 KB)
G:\CacheCntyUtah\CacheUT_CIR2006\CacheUT_CIR2006_Tiles\16\24469\12402.png(109.40 KB)

Portion of a sample Validate Tileset log file. The sample Google Maps tileset includes both JPEG and PNG files. The latter file type should be used only for edge tiles that include at least some transparent (no data) cells. In this case 10 PNG files were found to be fully opaque, and so can be replaced with JPEG files that are more compressed and that consequently load faster in Google Maps.

As a result, all of these processes have been refined to produce high-quality tilesets that work with maximum efficiency in all geobrowsers. However, MicroImages recommends that you use the Validate Tileset process to check the integrity of any tileset you obtain from outside sources and other software before you publish the tileset on the internet. You can further test the published tileset from the end-user's viewpoint via geoviewer by using the interactive diagnostic tool described in the Technical Guide entitled *Tilesets: Remote Diagnostic Tool*.

