MapServer Project Status

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MapServer Project Status

- Introductions
- History
- Statistics
- Highlights of 2009-2010
- How to contribute
- Q & A
Jeff McKenna

- Documentation
- MS4W Builds
Frank Warmerdam

- Raster formats (GDAL)
- Vector formats (OGR)
- OGC WCS
- Reprojection (PROJ4)
Thomas Bonfort

- AGG Rendering
- Vector Rendering
- Dynamic Chart Symbols
Daniel Morissette

- OGC WMS support
- PHP MapScript
- OGR Support
- Build System
- Release Manager
- ... and a bit of everything else...
History


Web-based Arc/Info AML Generation
ForNet project starts (imgserv)
Shapelib + GD release (mapserv)
V 1.0  V 2.0 (Public release as ForNet MapServer)
V 3.0 (UMN MapServer)
V 3.3 (MapScript, PROJ4 added)
V 3.4 (PHP MapScript added)
V 4.0 (OGC WFS, SWF, PDF and GDAL output, +++)
V 4.2 (OGC WMS SLD, WFS Filters, ...)
V 4.4 (OGC WCS, WMS Time, I18n, ...)
V 4.6 (SVG output, GEOS, ...)
V 4.8 (OGC SOS)
V 4.10 (Move to OSGeo, Incubation)
V 5.0 (Move to OSGeo, Incubation)
V 5.4, 5.6 (Performance, rendering, security)
V 6.0 (render, API)
Statistics

- MapServer-users
  - 1878 members
  - ~15 posts/day (2010 so far: 2500; 2009: 4900, 2008: 5400)
- MapServer-dev
  - 392 members
  - ~4 posts/day (2010 so far: 800)
- IRC #mapserver: 30+ people
- PSC: 11 members
- 22 committers, 177k lines of code
- Downloads? (MS4W: 2-3k/month?)
MapServer PSC

- Steve Lime (chair)
- Daniel Morissette
- Frank Warmerdam
- Yewondwossen Assefa
- Howard Butler
- Steve Woodbridge
- Perry Nacionales

- Tom Kralidis
- Jeff McKenna
- Umberto Nicoletti
- Tamas Szekeres
- Thomas Bonfort
Binary Distributions

- **Windows**
  - MS4W
  - OSGeo4W
  - FWTools

- **MacOSX**
  - King Chaos

- **Linux**
  - FGS
  - UbuntuGIS
  - DebianGIS
Highlights of 2009-2010

- 5.6.x Releases
- Code Sprints
- 6.0 Release
- WMS Performance Shoot-out
5.6 Release

- 5.6.0 – December 12, 2009
- 5.6.1 – January 1, 2010
- 5.6.2 – March 20, 2010
- 5.6.3 – March 22, 2010
- 5.6.4 – July 9, 2010
- 5.6.5 – July 14, 2010
5.6.x Release

- XML Mapfile schema and XSLT (ability to convert an XML mapfile into a regular mapfile)
- One-pass query processing
- Improve control of output resolution
- Labeling enhancements: ability to repeat labels along a line/multiline
- Security fixes
Security Releases

• MapServer 5.6.4/5.6.5 and 4.10.6, July 2010
• Reported that some of the mapserv CGI command-line arguments used by developers for debugging and testing the software constitute a security risk that could potentially be exploited remotely
• More issues with general use of static buffers will have to be dealt with over time in future releases
Code Sprints

- New York, February 2010
  - ~10 MapServer contributors
  - Also GeoServer, PostGIS, OpenLayers, GeoMOOSE
  - 6.0 release plan discussions
Code Sprints

• FOSS4G 2010, Barcelona – tomorrow!
  – 6.0 release plan
  – Discuss new features, future work
  – You are invited! @Citilab-Cornellà (map)
Code Sprints

• Winter/Spring 2011: Montreal or Quebec City
6.0 Release

• Release date not set yet
• 6.0 features:
  – Automatic XML Mapfile loading
  – Direct Tile Caching support
  – Expression parser overhaul
  – Rendering/labeling enhancements
Expression Parser Overhaul

• Why?
  – Logical expression support inefficient
  – Opportunities for expression use elsewhere

• Benefits
  – Performance improvements
  – Addition of geometry token type and spatial operators (e.g. intersects)
  – Support for OGC filters to/from MapServer expressions
  – Support for string expressions for formatting label text (e.g. 1234.5678 => 1,234.57)
  – Support for geometry expressions (e.g. GEOMTRANSFORM (buffer([shape], 100, meters)))
Rendering and Labeling Enhancements

• Deprecation of annotation layers replaced by style block inside label
• New Rendering API
  – Why? Mainly a source code maintenance issue to facilitate long term maintenance and addition of new features
  – Keep all output formats in synch feature-wise
  – Improves SVG and PDF output through Cairo
  • e.g. WMS GetMap with FORMAT=PDF will work
  – KML Output (SoC project)
Future Plans

• Named Styles and Labels
• Integrated “stack”
  – WFS-T (ZOO vs TinyOWS)
  – Tile Caching
  – mode=openlayers
  – OGR Output Formats
WMS Performance Shoot-out
WMS Performance Shoot-out

• MapServer vs 7 other mapping engines
• 4th edition of the exercise, held yesterday
• More info at http://wiki.osgeo.org/wiki/Benchmarking_2010
• Highlights of improvements to MapServer:
  – Large DBF support
  – Improving labels on curved lines (RFC-60)
  – Handling label precision
MAXOVERLAP ANGLE 0

MAXOVERLAP ANGLE 22.5

North Avenue
South Avenue
How to Contribute?

• Users:
  – Beta and release candidate testing
  – Bug reports in Trac, including test cases
  – Documentation (wiki, report issues in Trac)
  – Answers on the mapserver-users list and IRC

• Developers:
  – Bug fixes/patches
  – New features
  – Binary builds
Questions - Discussion