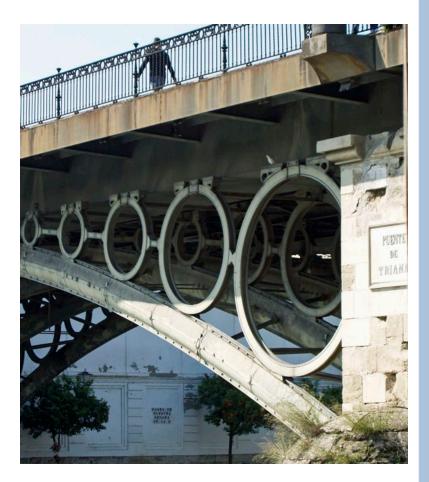


Gallium3D Design Goals

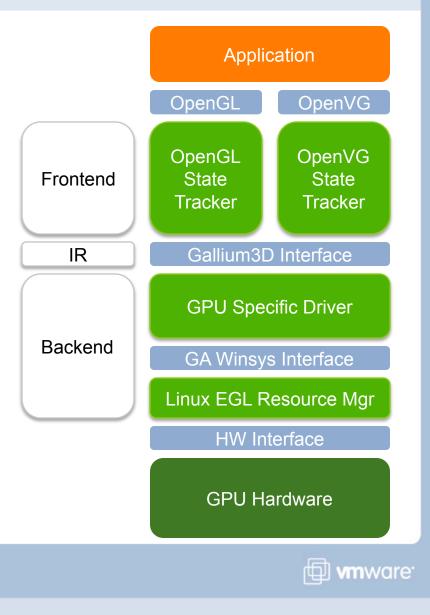
- Portability to all major operating systems and graphics interfaces
- Make drivers smaller and simpler
- Model modern graphics hardware





Gallium3D Architecture

- Simplify implementation of complex shader pipelines by borrowing compiler concepts
- Gallium3D Interface is the IR
- Frontends are specific to API's
- Backends are specific to GPU Hardware



Status of Open Source Components

Complete:

- OpenGL 2.x State Tracker
- ♦ OpenGL ES 1.1 State Tracker
- ♦ OpenGL ES 2.0 State Tracker
- ♦ OpenVG 1.0 State Tracker
- Softpipe (Software Renderer)
- ♦ EGL 1.0 Winsys
- ♦ X11/DRI Winsys

Partially Complete:

- ♦ OpenVG 1.1 (over 75% complete)
- ♦ OpenCL 1.0 (just started, less than 10% complete)



Status Relative to OpenKOGs

- OpenGL ES 1.1 and 2.0 support is solid
- OpenVG 1.1 requires some work (75% complete)
- Software renderer complete for above APIs
- OpenMax has not been addressed
- EGL requires work to integrate common surface management among all the above API's
- Going forward OpenCL requires significant work including significant enhancements to Gallium3D Interface



Face to Face Technical Session



- Full day, In depth, technical session on Gallium3D internals
- ♦ Face to face in Palo Alto on Nov 13th
- Contact jowen@vmware.com to reserve a seat at this session





