CoreAVI’s EGL_EXT_compositor extension for EGL is the industry’s first Future Airborne Capability Environment (FACE)-aligned safety critical compositor for OpenGL SC 1.0.1 and OpenGL SC 2.0. EGL_EXT_compositor is an optional addition to CoreAVI’s ArgusCore SC and ArgusCore SC2 graphics driver library suites. The extension minimizes application effort enabling composition of multiple windows within a multi-partition graphics system. It

**Features & Benefits**

The EGL_EXT_compositor:

- Provides safety critical graphics capabilities up to the most stringent levels
- Allows for off-screen asynchronous updates
- Ensures information assurance by preventing any non-primary contexts and surfaces from rendering to the display
- Allows management and control of GPU allocation to specific contexts including how much GPU memory a specific application is allowed to use.
- Allows each application to draw into its own off-screen window, providing a level of security that ensures one application won’t be overwritten with other applications’ video data, or provide back-channel access though a shared framebuffer.
- Prevents one application from drawing over another application unless the system designer allows it.
- Ensures that OpenGL Graphics cannot be rendered to the display without express instructions from the compositing application, nor can they interfere with any other rendering contexts.
- Is fully supported in hypervisor environments when used with HyperCore, enabling secure and independent virtualized GPU partitions to render graphics on the same displays
- Allows system designers to mirror off-screen windows to multiple windows on physical displays without having to invoke multiple applications