

Intel GPU Driver

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Revision : 1.7

- Intel: Документация, драйвер для Linux
- AMD: Документация, бинарный драйвер для Linux
- Nvidia: Бинарный драйвер для Linux, FreeBSD, Solaris

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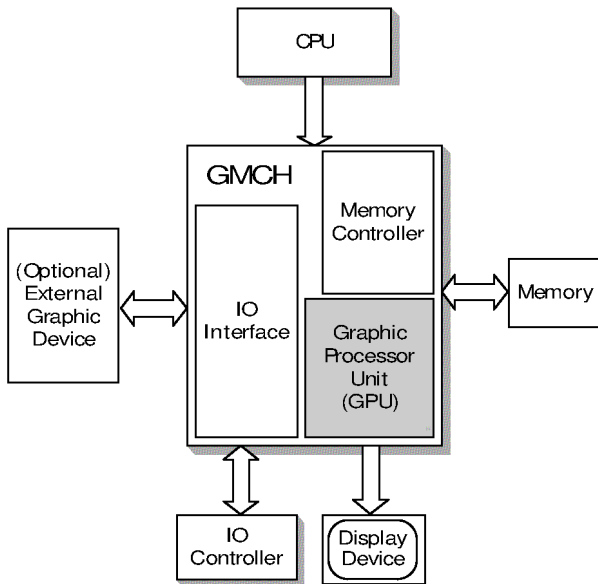
Intel documentation

GPU PRM

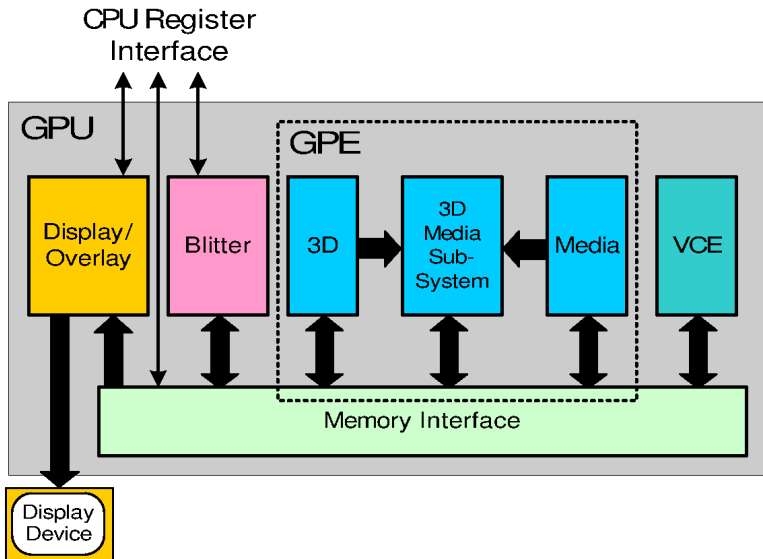
<http://intellinuxgraphics.org/documentation.html>

Chipset datasheets

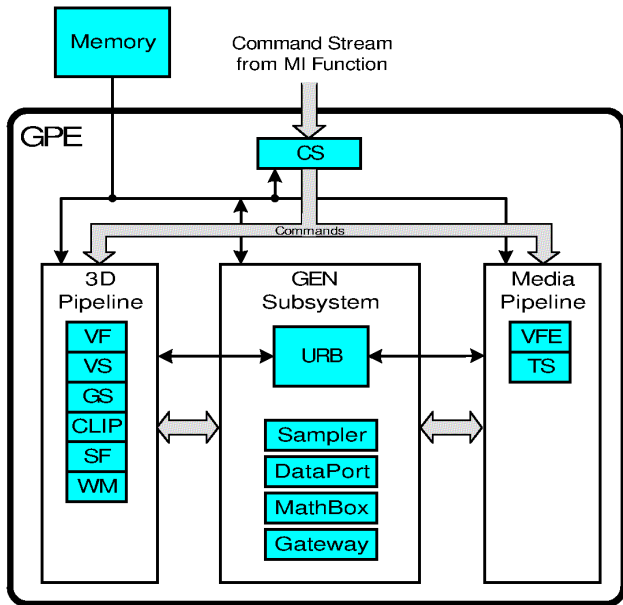
- Gen0: i740
- Gen1: i810
- Gen2: i865g
- Gen3: i915g, i945g, G33, Pineview (Atoms)
- Gen4: i965g, G(M)45
- Gen5: Core i5 600
- Gen6: Sandybridge (Core i3/i5/i7 2XXX)
- Gen7: Ivybridge



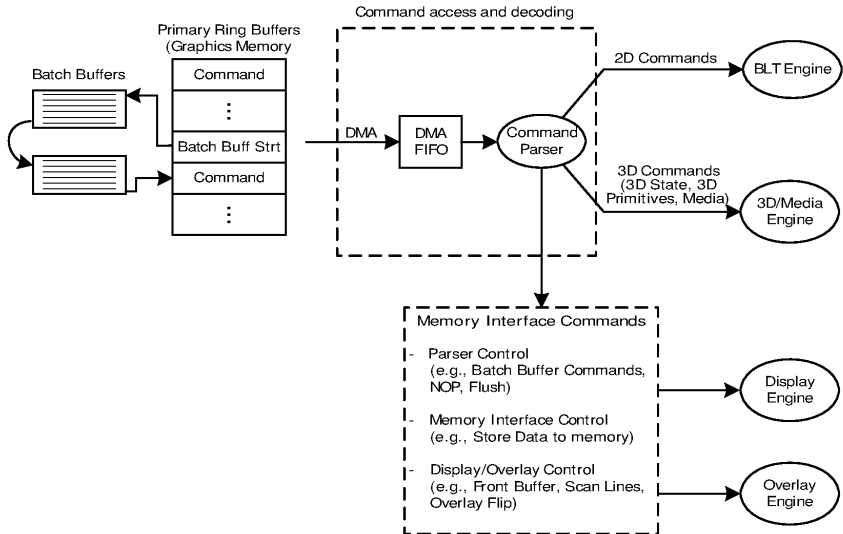
GPE - block diagram



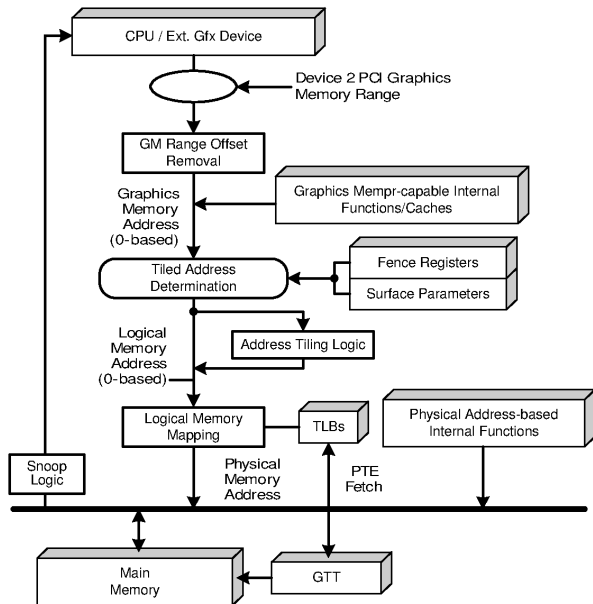
GPE - functional diagram



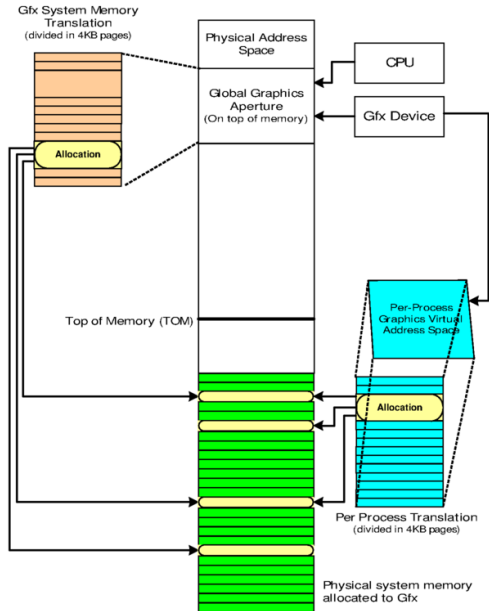
Ring commands processing



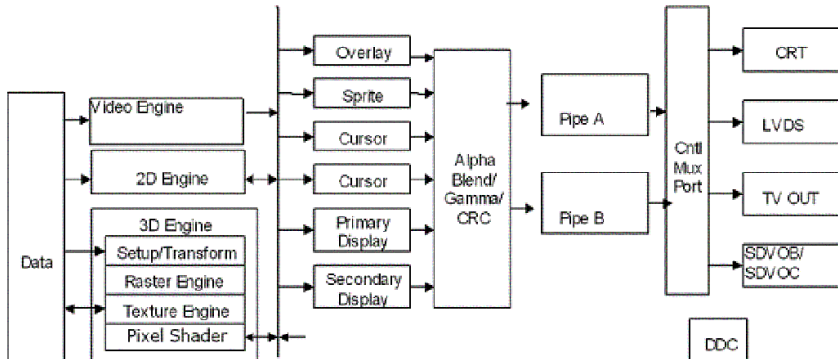
GPU memory address translation path



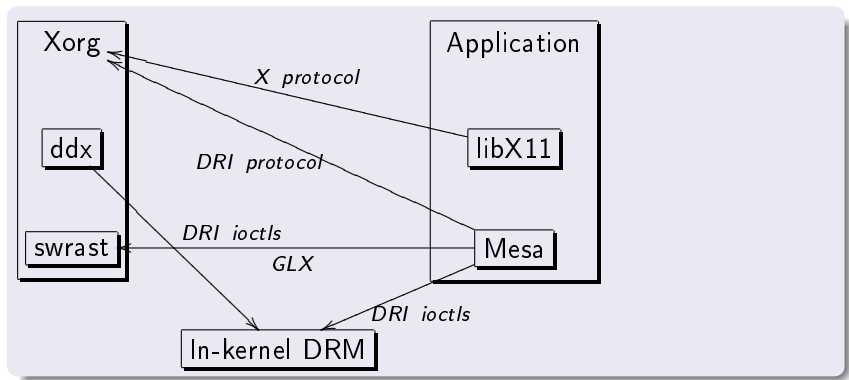
GTT paging



Video output



Graphics stack



GEM - Graphics Execution Manager

- Memory allocation and translation management
 - Aperture and GTT - AGP driver
- Tiling and swizzling
- Buffer object content and caching management
- Ring execution control

KMS - Kernel Mode Setting

- Output enumeration
- Monitor parameters, EDID
- Mode setting
- vblank handling
- Page flips

Инфраструктура

- Multi-master
- DRM Platforms (USB video)

Radeon driver

- TTM port
- KMS

Maintainers

- Импорт изменений из линукса
- Исправления