

CS5820: GPU-HW-SW Assessment

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What is a vblank	
	nt
A display event which occurs after every scanline is processed All of the above	
A user configurable event indicating that buffer is flipped	
A Display event when full frame is processed	
Which of the following is true with regards to the difference between refresh rate and frame rate? Refresh rate can be higher than frame rate, in terms of screens of information displayed per second, when considered for any given video output. The frame rate of a monitor is adjustable, while the refresh rate is fixed. Content is recorded at a specific refresh rate, and output on a monitor at a specific frame rate. Monitors are rated only in refresh rate or frame rate, but never both.	nt
Which of these should ideally be inside igt_fixture?	nt

 igt_require(num_planes > 0); for a plane related test. None of the above. Logical Ring Context consists of ✓ GPU address space seperation List of BB ✓ Hardware state save/restore ✓ Timeline of execution 	1 point
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☐ List of BB ✓ Hardware state save/restore	
Hardware state save/restore	
Timeline of execution	
Which function initializes igt_display_t structure.	1 point
igt_display_fini().	
<pre>Igt_display_reset().</pre>	
igt_display_require_output().	
igt_display_require()	
Which of the below functions waits for 1 vertical blank interval?	1 point
igt_wait_for_vblank_count(int drm_fd, int crtc_offset, int count), with count > 1.	
kmstest_get_vbl_flag(int crtc_offset).	
None of the above.	
kms_has_vblank(int fd).	
Which of the following display connectors is designed for an analog signal?	1 point

✓ DVI

✓ VGA ✓ Display Port	
How Display Atomic Framework in DRM ensures atomicity	1 poi
✓ Having the update divide in 2 parts, check and commit	
By having one single driver interface for all the display updates	
By maintaining display configuration as states	
By creating display attributes as properties	
Which of the following determines the pixel clock needed for a mode	1 poi
Aspect Ratio	
✓ Frame rate	
✓ Hactive	
✓ Refresh rate	
We are flip at a rate of 24fps, but refresh rate is 60. Which of the below will happen	1 poi
Driver will reject the configuration	
a and b	
✓ We will get display artifacts on screen	
Same frame will be shown multiple times on screen	
ret = 2; igt_require(ret > 1); What will be the result here?	1 poi
sub-test skips	

Execution continues to the next statement.	
sub-test fails	
None of the above.	
Which is the first IOCTL to start getting display hardware capabilities in	1 point
userspace	
DRM_MODE_GETCRTC	
DRM_MODE_GETRESOURCES	
DRM_MODE_GET_ENCODER	
DRM_MODE_GETCONNECTOR	
Why undating display configuration atomically is important	1 point
Why updating display configuration atomically is important	1 point
We will see tearing otherwise	
We will see flickers	
System can get stuck	
Changes will be discarded by hardware	
BO is well described as	1 point
Is a 32 bit handle	
Can be shared amongst the processes	
Content is data and instructions	
Chunk of memory in the flash	
David O of F	
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