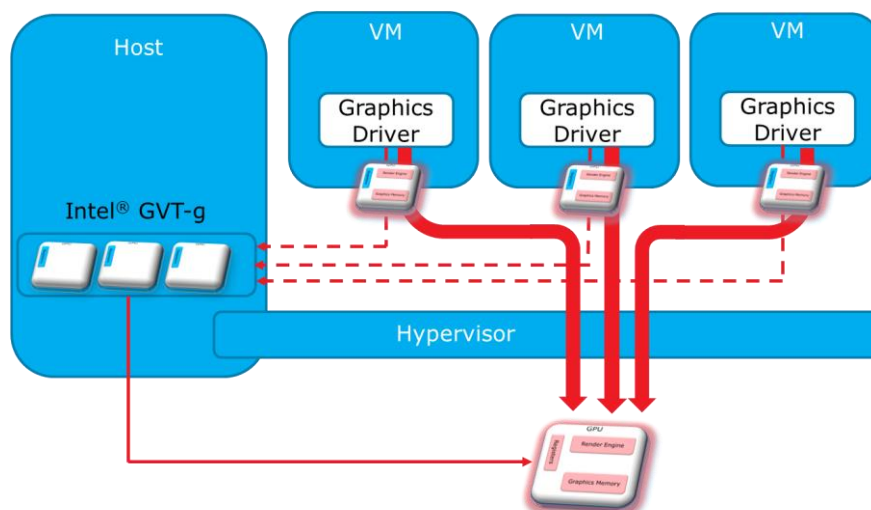




## Intel® Graphics Virtualization Technology for shared vGPU (Intel® GVT-g)

There are fast-growing server usages, for example cloud graphics and video delivery, driving strong demands for graphics virtualization. Intel® Graphics Virtualization Technology for shared vGPU (Intel® GVT-g) is a full feature and high performance graphics virtualization technology that unleashes these visual cloud usages. It presents a full functional virtual Intel Processor Graphics into Virtual Machine (VM), while at the same time one physical Intel Processor Graphics can be shared among multiple VMs. This presents a unique well-balanced value of fast virtual GPU performance and low TCO to our customers.

Intel® GVT-g is a full GPU virtualization solution with an advanced mediated pass-through technique. A virtual GPU instance is emulated for each VM with full and accelerated GPU capabilities exposed, so a native graphics driver can run seamlessly inside the VM. In the meantime, performance critical resources are directly assigned to each VM so hypervisor intervention is minimized in performance-critical path.



Intel® GVT-g have a full open source implementation for both KVM and Xen, known as KVMGT and XenGT respectively. KVMGT and XenGT deliver excellent virtual GPU performance into VM, for example >85% 3D performance in VM compared to native. In the meantime, up to 7 virtual GPUs can be supported in parallel on Intel® 5<sup>th</sup> Generation Core™ (“Broadwell”) Processor and Intel® E3 v4 Xeon Processor.

For more information please visit Intel® GVT-g project on:

<https://01.org/igvt-g/>

<http://www.intel.com/visualcloud>

Software and workloads used in performance tests may have been optimized for performance only on Intel microprocessors. Performance tests, such as SYSmark and MobileMark, are measured using specific computer systems, components, software, operations and functions. Any change to any of those factors may cause the results to vary. You should consult other information and performance tests to assist you in fully evaluating your contemplated purchases, including the performance of that product when combined with other products. Results have been estimated or simulated using internal Intel analysis or architecture simulation or modeling, and provided to you for informational purposes. Any differences in your system hardware, software or configuration may affect your actual performance.

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