

## USAGE MODEL:EXAMPLES

The Intel® Rapid Boot Toolkit enables server pre-OS customization, allowing EPSD volume servers to be exquisitely tailored to arbitrary end-user infrastructure and processes.

The following is a short list of possible payloads. This is not intended to be an exhaustive list, only some examples.

1. An HPC compute kernel—converting the volume server into an HPC compute appliance, creating an ‘instant on’ diskless cluster.
2. An HPC cluster provisioning kernel—converting the volume server into an HPC compute appliance, maximizing scalability, performance, and reliability of HPC cluster provisioning.
3. An Enterprise Grid kernel—converting the volume server into a grid compute appliance, maximizing scalability, performance, and reliability of grid operations.
4. A virtual hypervisor—converting the volume server into a virtual OS appliance, running guest operating systems directly under the payload host.
5. An OS vendor’s provisioning kernel—enabling the server to be provisioned over LAN, MAN, and WAN, maximizing provisioning scalability, performance, and reliability of OS provisioning.
6. An Enterprise Management Agent—converting the volume server into an Enterprise compute appliance, enabling the server be managed over LAN, MAN, and WAN with your existing Enterprise Management console.
7. A software appliance stack— converting the volume server into a hardware appliance, combining the substantial compute power, configurability, and cost economies of volume servers with the customizability of embedded systems.
8. A system integrator’s software provisioning and configuration stack—enabling server configuration and burn-in to be completely automated during system manufacturing. Once the basic configuration and testing is complete, the customer-specific system configuration is automatically installed and validated.
9. A kernel with NFS-based root— converting the volume server into an NFS-based compute appliance
10. Enhanced network boot-loader with InfiniBand support—enabling network booting over InfiniBand.
11. Enhanced boot-loader capabilities with hardware diagnostics—enabling arbitrary pre-OS remote diagnostics for complete lights-out management of remote datacenters.
12. Enhanced boot-loader capabilities with IPMI support—providing out of band boot parameters, directing boot processing before remotely turning system power on.

13. Enhanced boot-loader capabilities with arbitrary encryption and authentication—enabling arbitrarily secure pre-OS remote communications based on your existing authentication infrastructure and preferred encryption methods. This capability is a standard part of IRBT's example payloads.
14. Enhanced boot-loader capabilities with online BIOS update and configuration tools—maximizing scalability, performance, and reliability of BIOS and firmware configuring operations. This capability is a standard part of IRBT's example payloads.
15. Enhanced boot-loader capabilities with online-OS network stack capabilities—enabling arbitrary pre-OS and boot operations over LAN, MAN, and WAN with the same network configurations as your OS-present environment. This capability is a standard part of IRBT's example payloads.

As customer solutions become available around these or other use cases, links will be added here to these solutions. **If you have any uses cases you would like to share, please contact your local Intel field representative.**