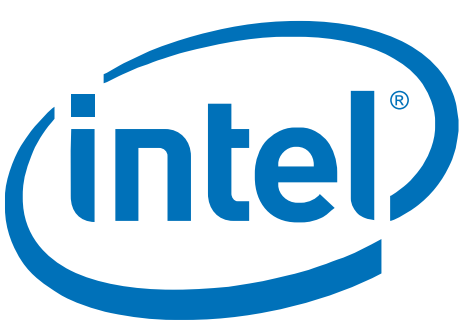


# TSUBAME 2.5: A GPU-centric Green 5.78 Petaflops Supercomputer

TSUBAME 2.5: "Tiny" footprint, very power efficient  
- Floorspace less than 200m<sup>2</sup> (2,100 ft<sup>2</sup>)

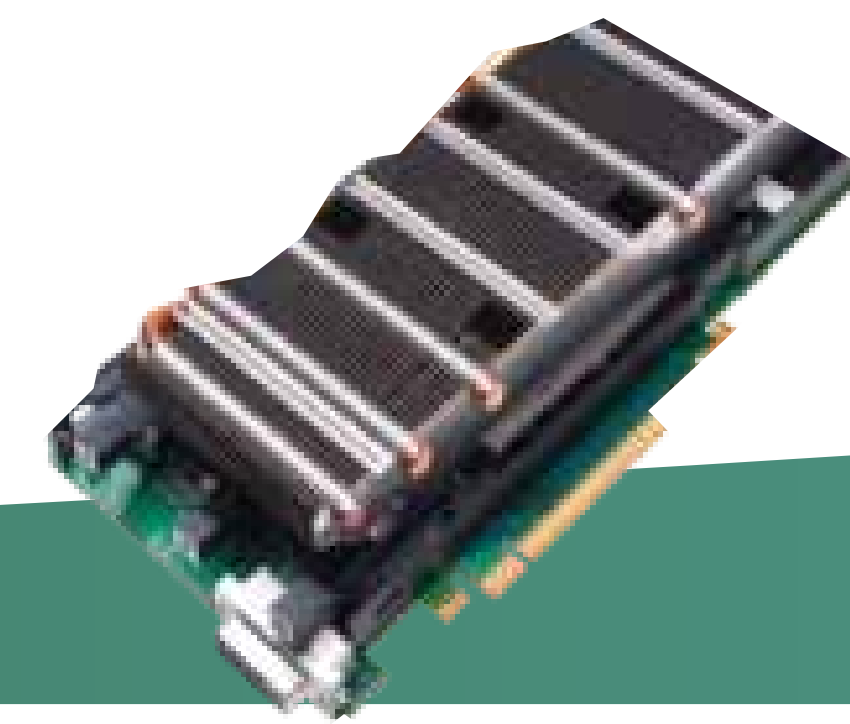
## Processor

CPU 



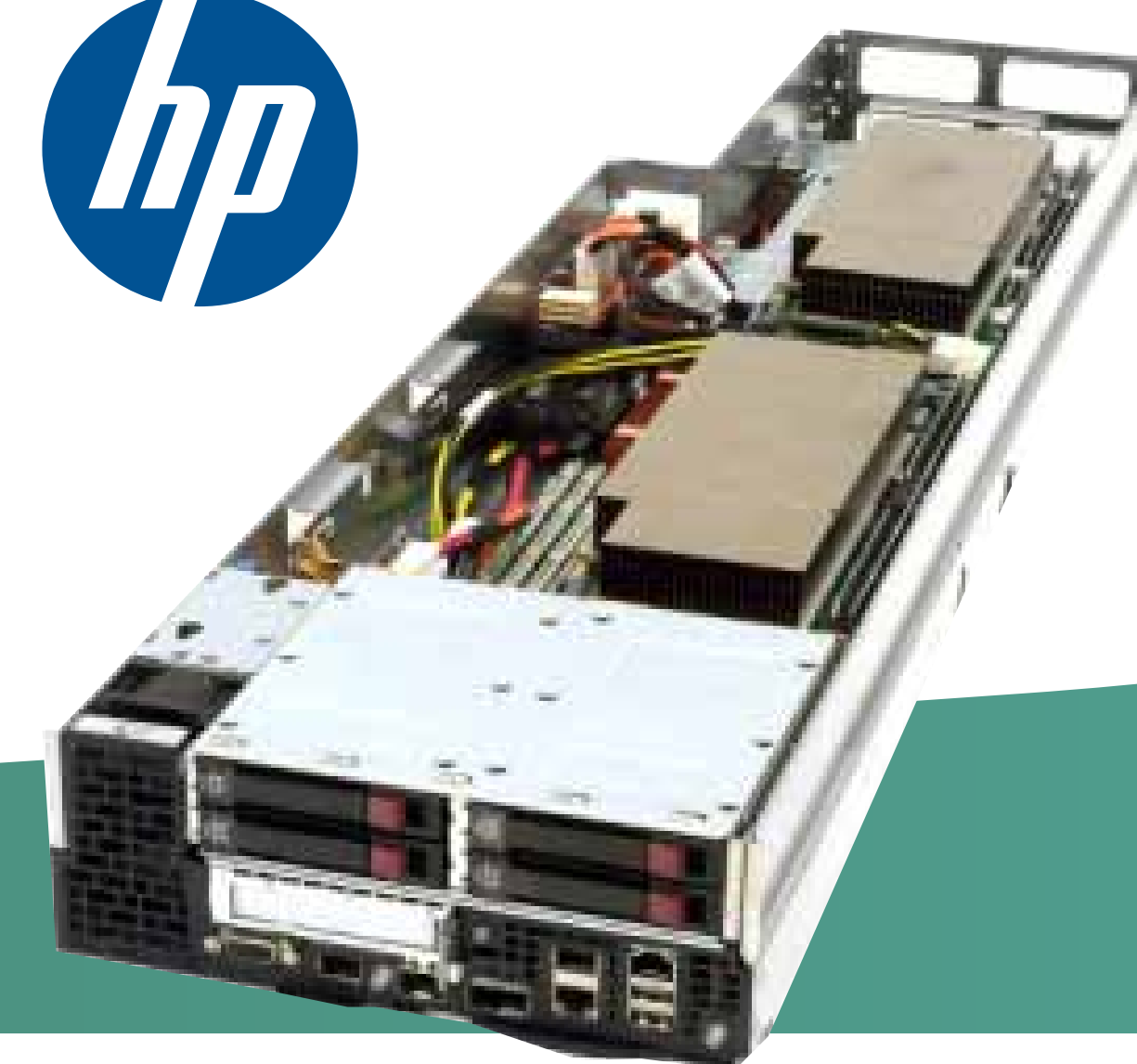
Intel Xeon X5670  
(Westmere-EP)  
- 2.93 GHz  
- 76.8 GFLOPS

GPU 



**UPGRADE**  
NVIDIA Tesla K20X  
(Kepler GK110)  
- 1.31 TFLOPS (DP)  
- 3.95 TFLOPS (SP)  
- 6 GB

## Compute Node



HP ProLiant SL390s G7  
(2 CPUs, 3 GPUs)  
- **4.08** TFLOPS  
- 58 GB (CPU)  
- **18** GB (GPU)

## Node Chassis



HP ProLiant S6500  
(4 Compute Nodes)  
- **16.3** TFLOPS  
- 232 GB (CPU)  
- **72** GB (GPU)

## Rack



HP MCS Rack  
(8 Node Chassis)  
- **122** TFLOPS  
- 1.74 TB (CPU)  
- **540** GB (GPU)

## System



TSUBAME 2.5  
(1,408 Compute Nodes)  
**5.78** PFLOPS  
81.6 TB (CPU)  
**25.3** TB (GPU)

Integrated by **NEC**