

# Better Cloud Inference Performance on Intel

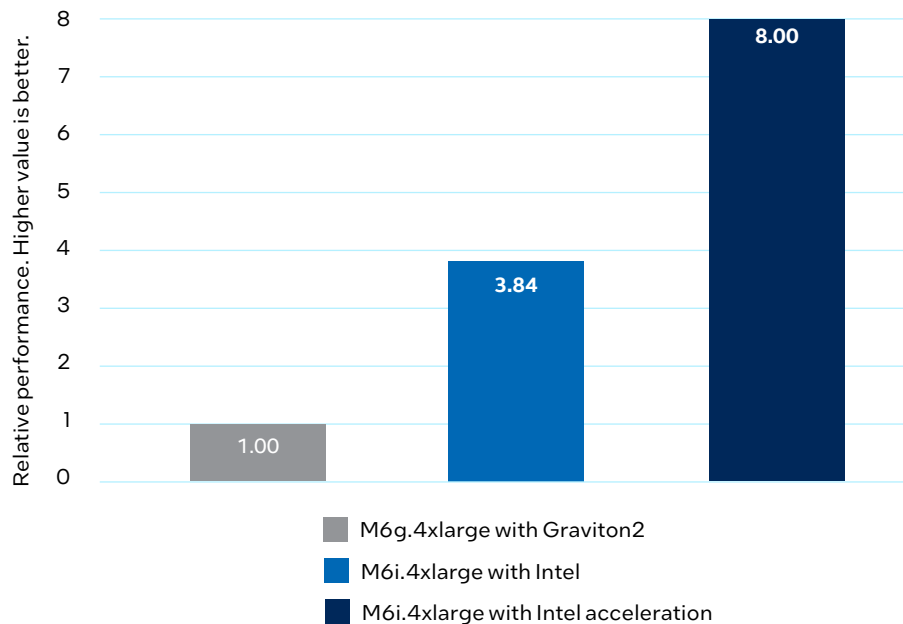


Artificial intelligence (AI) and machine learning (ML) are delivering fantastic outcomes for your customers and propelling your business forward. Take it to the next level on Intel.



## M6i with Intel Outperforms M6g with Graviton2

ResNet50 Images Per Second<sup>1,2</sup>



### Solve Common Problems

- Conduct inference in the cloud or at the edge
- Detect and label objects quicker
- Realize revenue from applications sooner
- Reduce production line defects
- Improve customer experience

### Ideal for

- Image classification
- Image segmentation
- Retail
- Manufacturing
- Public safety monitoring

### Built-in Acceleration

Hardware features in M6i capitalize on AI / ML software processes. Deliver results to your customers faster by deploying applications on the latest generation Intel Xeon processors.

# Cloud Performance Advantages



Up to **6.4x** better price performance in ResNet50 image processing in M6i with acceleration than M6g<sup>3</sup>



Up to **9x** lower latency in ResNet50 with optimization in M6i than M6g<sup>2</sup>



## Intentional Workload Placement

Choose from **AWS EC2 M6i, C6i instances**, and **DL1 instances** for your AI/ML workloads. Discover the benefits **Intel leadership in AI technology** brings to your business.

## Development Tools & Resources

Prepare, build, deploy, and scale AI solutions for your workloads. Visit [developer.intel.com/ai](https://developer.intel.com/ai) for help getting the most out of your cloud.



Let's work together. [Contact us.](#)

1. See [www.intel.com/3gen-xeon-config](https://www.intel.com/3gen-xeon-config) [77].

2. Source: Serve The Home study, "AWS EC2 m6i Instances Why Acceleration Matters." Sponsored by Intel. November 2021. <https://www.servethehome.com/aws-ec2-m6-instance-intel-ice-lake-and-graviton-2-acceleration-matters>

3. Source: Serve The Home study, "AWS EC2 m6i Instances Why Acceleration Matters." Sponsored by Intel. November 2021. <https://www.servethehome.com/aws-ec2-m6-instance-intel-ice-lake-and-graviton-2-acceleration-matters> AWS M6i.4xlarge instances with Intel acceleration technologies deliver up to 6.4x better price performance on ResNet-50 inference throughput than M6g.4xlarge instances with AWS Graviton2 processors. Pricing information from US-West-2 region as of January 5, 2023. <https://aws.amazon.com/ec2/pricing/on-demand>

Note: One benchmark does not fit all workloads. Select meaningful measurements to inform your purchasing decisions. For more information, see [www.intel.com/3gen-xeon-config](https://www.intel.com/3gen-xeon-config) [101] and [102] and <https://www.intel.com/content/www/us/en/cloud-computing/benchmarking-for-better-performance-brief.html>

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