

Extending the Boundaries of Weather and Climate Forecasting

The Korea Meteorological Administration (KMA) provides weather forecasting and issues warnings to citizens, businesses, and government agencies. The administration is also responsible for observing and researching climate change. To support faster and more accurate forecasting, KMA will replace its existing supercomputer with a next-generation liquid-cooled High Performance Computing cluster based on Lenovo ThinkSystem SD650 V2 and SD530 servers. Equipped with 3rd Generation Intel® Xeon® Scalable processors, the Lenovo cluster will execute at a theoretical performance of 50 petaFLOPS—eight times faster than KMA’s current supercomputer—and will be four times more energy efficient.¹ The Lenovo system will enable KMA to generate more accurate forecasts at a higher resolution than was previously possible, so it can deliver better, more reliable weather services.

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Industry
Government

Organization Size
1,001–5,000

Country
Korea

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¹ For more complete information about performance and benchmark results, visit <https://www.intel.com/content/www/us/en/customer-spotlight/stories/kma-lenovo-customer-story.html>