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News

DUG Technology to provide burst compute and storage services for Austal's Henderson shipyard
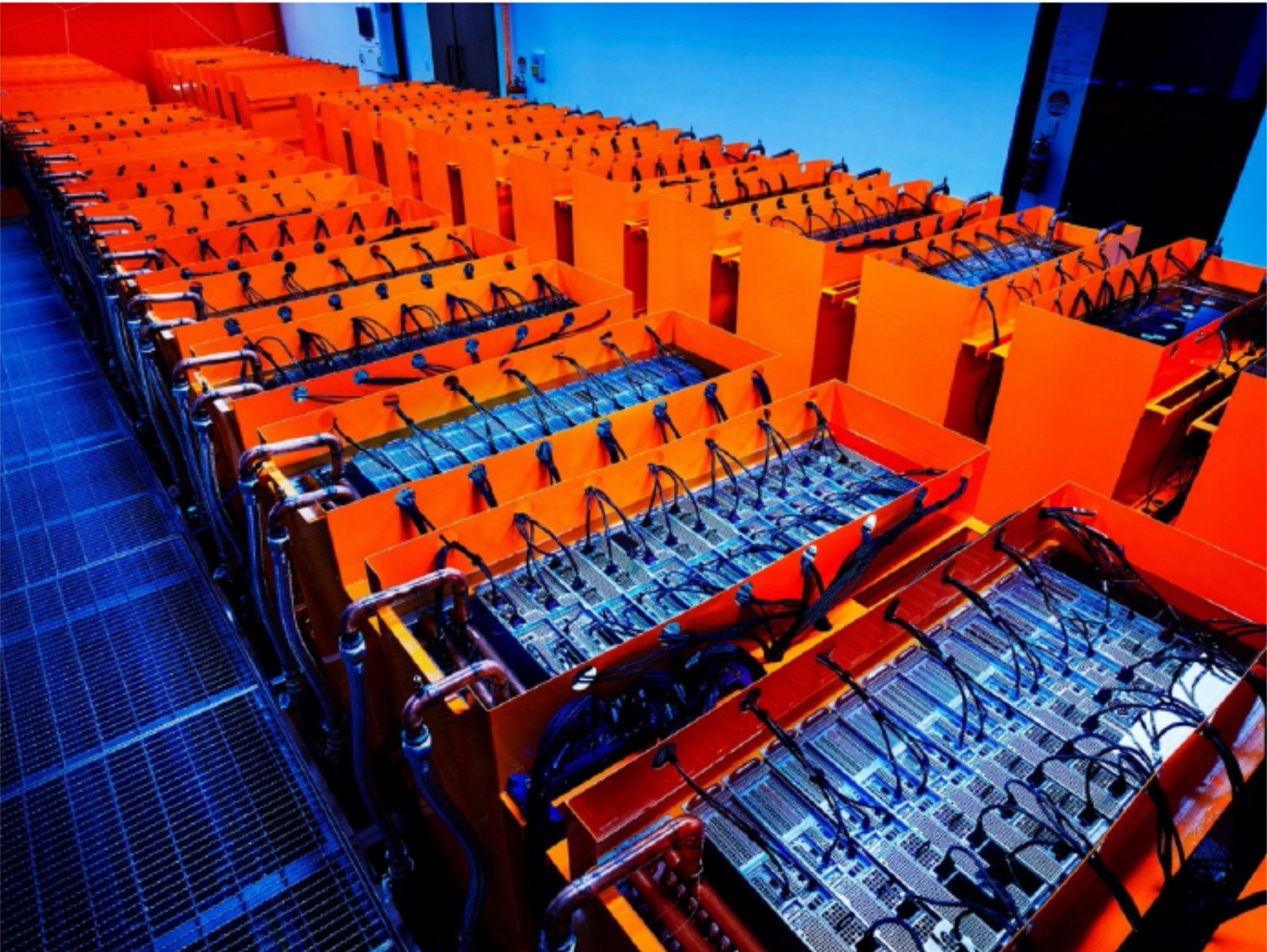
By **Jasmina** - August 26, 2021

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Austal Australia has approached Perth-based high-performance computing as a service (HPCaaS) company, DUG Technology to provide burst compute and storage services at its shipyard in Henderson, Western Australia.

DUG is an ASX-listed technology company that specialises in analytical software development and reliable, green, high-performance computing (HPC).

The company is rescognised as one of the greenest HPCaaS (HPC) providers in the world, with plans to build the world's first climate-positive HPC data centre in Geraldton, WA; powered by renewables and featuring the company's patented immersion cooling system that reduces power consumption by up to 51%, compared to traditional computer facilities.

Austal's advanced vessel design processes are demanding and involve intensive calculations and programming to conduct tasks such as computational fluid dynamics (CFD) analysis.

The shipbuilder is also increasingly using big data analytics to optimise the performance of vessels, through products such as MARINELINK-Smart, as well as machine-learning techniques to optimise vessel designs.

Austal Chief Digital Officer Andrew Malcolm said Austal would will be utilising DUG McCloud, a collaborative cloud solution that enables bursts of computational capacity, on demand, using software.

"DUG is an ideal partner for Austal, not only as an Australian-based high-performance computing service provider but one of the greenest in the world," Mr Malcolm said.

"Austal will be running computational analysis through DUG to improve the efficiency of our vessel designs and reduce their GHG emissions; a great combination of world-leading Australian expertise and capability, tackling the challenge of decarbonisation."

Image credit: https://www.austal.com/news/austal-engages-australian-based-dug-environmentally-friendly-high-performance-computing-service.

TAGS   ASX-listed technology company   Austal's Henderson shipyard   Australian Manufacturing   burst compute and storage   DUG McCloud   DUG Technology   high-performance computing   high-performance computing as a service   HPC data centre in Geraldton   HPCaaS   MarineLink Smart

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