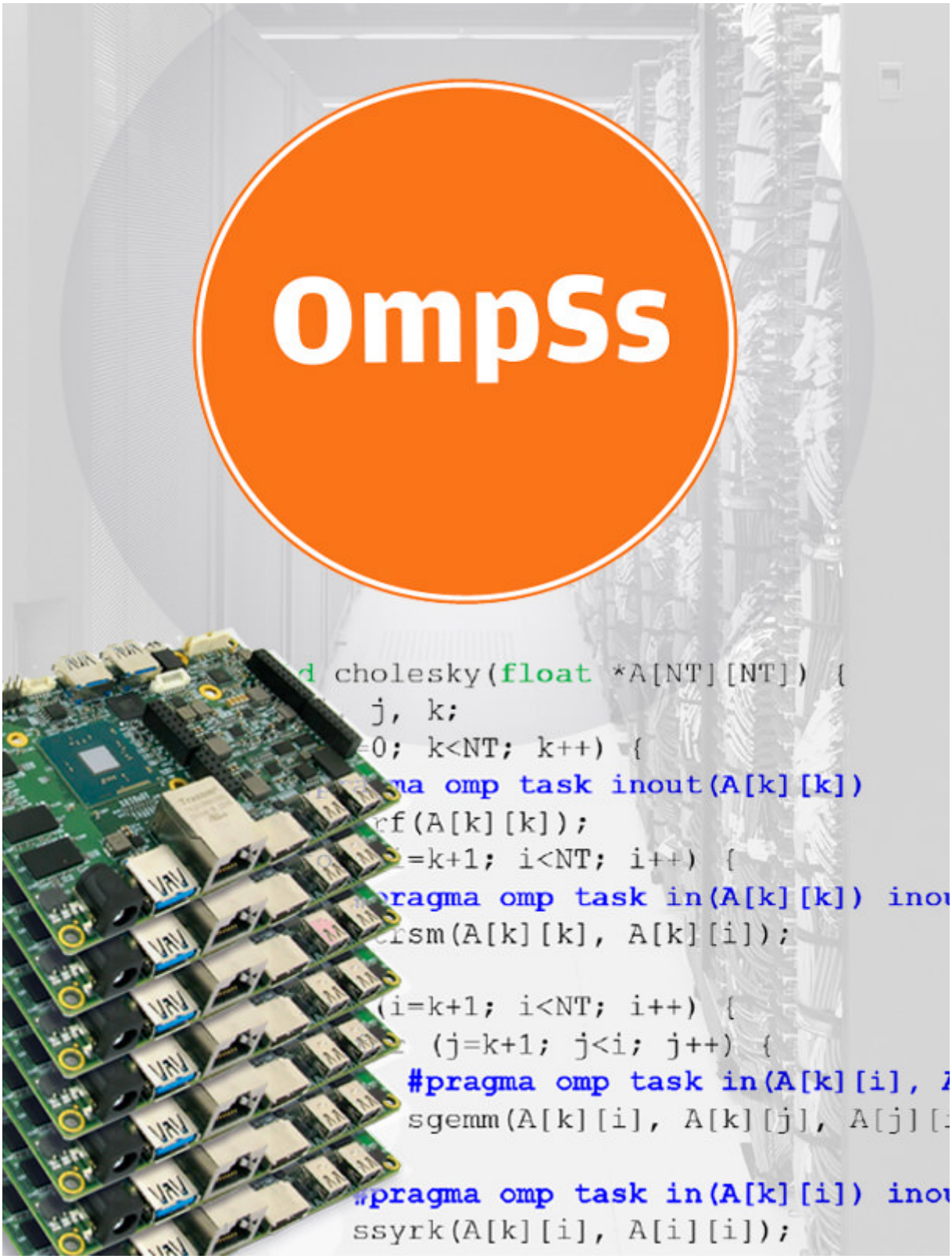
Powerful maker board incorporates BSC programming model OmpSs



OmpSs, the parallel programming model developed at Barcelona Supercomputing Center (BSC), is used on the new UDOO X86 board, which reached its Kickstarter funding target of €100,000 in under seven hours.

UDOO X86 combines a powerful maker board and an Arduino 101-compatible platform, all embedded on the same board. It can be used for a range of applications, such as gaming, video streaming, graphic design editing, Internet of Things applications, or as a toolbox for makers.

The programming model OmpSs, developed at BSC, will be used to operate the UDOO X86 Cluster Kit, providing a simple and efficient way to configure a multi-node application. Using OmpSs on the UDOO X86 is possible thanks to research led by BSC in the projects Mont-Blanc and AXIOM, funded by the

European Union under the 7th Framework Programme and Horizon 2020.

According to BSC Parallel Programming Models Group Manager, Xavier Martorell, ‘this is a great opportunity to raise awareness about our programming model OmpSs, especially among the embedded systems communities’.

OmpSs is currently implemented on Intel/AMD x86, IBM PowerPC and BG/Q and ARM architectures, CUDA and OpenCL devices.

A workshop named ‘Build your own supercomputer with OmpSs, UDOO and Arduino’ will take place in Siena (Italy) during European Maker Week from 30 May to 5 June, offering participants the opportunity to learn how to build a cluster system on OmpSs and UDOO.

The Kickstarter campaign for the UDOO X86 board ends on 6 June. With 41 days to go, the campaign has already crowdfunded more than €425,000 from 2,337 backers.

Nota de prensa en castellano (pdf)

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