

Designed to manage clusters of Digital Signal Processors – Enea dSpeed Platform

AREA OF COMPETENCES: Embedded Systems and Microelectronics
INDUSTRY: Telco

CHALLENGE

ENEAA

Enea required a team of qualified human resources that will be involved in working at improving its product dSpeed Platform. The dSPEED Platform extends the capabilities of Enea's industry leading DSP real-time operating system OSE ck™ with a complete set of DSP management services that includes: start up and configuration, error handling, monitoring and supervision, event notification, logging and tracing, diagnostics and statistics and remote debugging. It provides a comprehensive suite of inter-process and network communications technologies.

SOLUTION

We and Enea jointly developed a plan to assemble a team of experienced embedded software engineers with various expertises like RTOS knowledge, telecommunication and networking platform/framework application. The new organization group mirrored the existing ENEA R&D organization and was connected directly with existing Enea development teams. They were immediately involved in on-going and coming projects.



Together with Enea, our team had several responsibilities required by the product improvement process:

- Porting the Dspeed middleware platform to new hardware platforms.
- Up-dating the test suite and test systems for the Dspeed application
- Developing benchmarking projects for measuring the performance of Dspeed application on various real time operating systems and hardware platforms
- Up-dating DSP system boot-loading functionality

The technologies that we used were:

- Hardware: Freescale Starcore Family, Texas Instruments c64x+ Family.
- Software: Code Warrior IDE, Code Composer, Linux.

The Enea dSPEED Platform delivers comprehensive support for DSP farms in the data plane, giving customers a head-start, dramatically simplified integration, verification and maintenance resulting in significantly reduced time to market and overall product life-cycle cost.