

# Auriga—Embedded and System Level Expertise

AURIGA HAS BEEN ONE OF THE WORLD LEADERS in embedded systems development since 1990. With its key technology focus on embedded and system-level solutions, Auriga brings to its customers professional quality and reliability in software development. Major multinationals, including IBM, Dräger Medical, LinuxWorks, and many others, choose Auriga as their trusted solutions provider

Auriga's engineers are the recognized experts in both the theory and practice of system-level development, including all aspects of:

- **Embedded Systems.** Many of Auriga's embedded projects have the highest level of complexity in the world. For instance, Auriga is responsible for the full life-cycle development and maintenance of an award-winning embedded Linux implementation enhanced by a comprehensive cross-development environment and toolset.
- **Operating Systems Internals.** Auriga has brilliantly accomplished multiple projects which require deep interference into kernels of operation systems. Now Auriga, with its special focus on the Linux- and Windows-based OS and kernels, has unmatched expertise its clients can fully rely on. Customers delegate their kernel-level projects to Auriga because they are sure they will always receive professional service and support with kernel improvements, kernel-level components development, building of device drivers, porting, and the repair of defects.
- **Real-Time Systems.** The real-time software development projects Auriga delivers always offer unmatched levels of performance and, furthermore, set the industry standards for reliability, fault tolerance, and scalability. Auriga has solid and diversified experience capabilities in RT OS solutions delivery projects that combine both industry standards elaboration and complex real-time software development. Auriga's customers receive high-end technical solutions that speed up their routine product development processes utilizing Auriga's extensive background in high-availability real-time software development and its in-depth real-life industry knowledge.
- **Drivers and BSPs.** For many years Auriga has developed Board Support Packages (BSPs) for both OS

and board vendors. With almost 20 years of successful software development, Auriga has developed diversified expertise with multiple types of peripherals, processor architectures, as well as a wide variety of operating systems. This accumulated experience and knowledge enables Auriga to create any driver for virtually any OS/device combination.

Some additional details for Auriga expertise in system-level and embedded development are provided in a separate presentation.

## Technology Expertise Summary

Auriga has a vast experience with various operating systems and processor architectures, as well as with communication protocols and technologies, and industrial platforms.

### Operating systems

- Linux, ucLinux (microLinux), embedded Linux
- LynxOS, VxWorks, OSE, pSOS, QNX
- Windows 95/98/NT/2000/XP/2003
- Windows NT/XP Embedded
- Windows CE
- SunOS, Solaris, HP-UX, AIX, Digital UNIX/Tru64
- UNIX, SCO UnixWare, SCO OpenServer

### Processor architectures

- PowerPC
- ARM and XScale
- MIPS
- Intel x86
- SPARC, Ultrasparc III
- Super-H
- Alpha
- Intel i960

### Hardware platforms and technologies

- AdvancedTCA, AdvancedMC, MicroTCA
- CompactTCA, CompactPCI
- PCI, PCI-X, VME
- Switching fabrics (StarFabric, GigaBridge)
- IPMI, I2C
- SCSI, iSCSI
- FibreChannel, Ethernet, ATM, T1/E1
- Single board computers, transparent and non-transparent bridges
- I2O

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