

## Custom Software Services

- Custom Device Drivers and OS Enhancements
- Custom Applications
- Superscalar Performance Optimization for i960® CA/CF/MM Microprocessors
- Efficient Scalar and Vector Floating-Point Libraries
- Real-Time Process Control
- Custom Cross Development Tools

Performance Computing excels in custom software projects ranging from writing optimized libraries to language processing and operating system level programming.

Performance Computing's engineers are responsible for thousands of lines of highly tuned embedded applications programming. These applications span areas such as implantable medical devices, process control systems, real-time sonar data collection and processing, and special image generation and enhancement. As well as experience developing avionics, electronic countermeasures and other DSP and communication applications.

Performance Computing has produced highly optimized code for the superscalar i960 processor family using techniques such as software pipelining, code compaction, register allocation after scheduling, cache management and loop unrolling, among others.

Performance Computing has experience writing device drivers for nonstandard devices, interfacing with real-time operating systems like VxWorks, VRTX and MON960 and integrating diverse systems.

Performance Computing has written optimizing assemblers, linkers, simulators and debuggers – all with high performance and useful features designed in.

Performance Computing has written language translators and added capabilities to existing compilers and is proficient in Ada, C, C++, FORTRAN and i960 processor assembly language.

Performance Computing provides full software services, including requirements specification, system design, custom applications programming, and quality assurance. All custom projects are backed by a 6 month warranty against bugs.

PROCESSORS SUPPORTED:  
i960 Processor Family

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