Company Overview

eCosCentric specializes in delivering products and services for the embedded systems market based on open source technology, with a specific focus on the eCos® real-time operating system and related software such as the RedBoot™ bootstrap firmware.

Founded by the team that created the eCos RTOS, eCosCentric brings to bear unrivalled expertise with eCos and RedBoot. You can depend on our knowledge and experience to provide you with the best solutions to your embedded software requirements.

Our products include a range of eCosPro® developer and starter kits. These are industrial strength distributions of eCos that provide a complete solution for deeply embedded application development. The kits can incorporate a range of features including the Eclipse integrated development environment, industry standard GNU compiler toolset, and the eCos graphical configuration tool. On the runtime side they feature the eCos RTOS, its associated range of packages including TCP/IP, file systems and RedBoot firmware, as well as eCosCentric exclusive extensions in areas such as filing systems, networking, system analysis tools, extended device driver support, and C++ library support. eCosCentric also develops and supplies its own add-on middleware as well as a range of third party products specific to eCos.

eCosCentric combines open source technology with professional levels of testing and QA, and backs it all up with no-nonsense support plans.

Services

Working with OEMs, board vendors and semiconductor manufacturers, eCosCentric simplifies and accelerates the prototyping, development and deployment of embedded products. We offer a comprehensive range of services including consultancy, training, custom engineering, porting, and certification. The services are delivered by experienced, knowledgeable and responsive professionals, helping you to ensure the delivery of high quality, robust products to the market on time.

Custom Engineering

eCosCentric can assist you in your embedded projects, taking care of any or all of the system software details so you can concentrate on the application. Custom engineering can cover new eCos and RedBoot functionality and features, new device drivers, customized features of existing eCos packages, porting of middleware, performance enhancements, and so on. We deliver fully tested and debugged code to a fixed, or time and materials, based schedule. All projects have an assigned project manager to ensure the project stays on track and to keep you fully informed at all times.

eCos and RedBoot Porting

eCosCentric engineers have more experience porting eCos and RedBoot to new hardware than any other group in the world. We can supply customized, fully tested and supported ports of eCosPro to your target hardware, with a feature set specified by you – including debugging support, device drivers, networking, file systems, and middleware. Ports are supplied with a full set of host side tools including the Eclipse-based integrated development environment, GNU toolchains, and eCos graphical configuration tool. Both Windows and Linux host development environments are supported.

Services

Training

eCosCentric training brings your engineers up to speed with eCos, RedBoot and the host-side development environment as quickly as practically possible. We offer both on-site and public training courses. On-site training is based on the target hardware of your choice, providing engineers with hands-on experience of eCos development tailored to your specific environment. Our high quality courseware is updated for each new release of eCos, and courses combine workshop sessions with theory to provide a complete eCos education.

Test & Certification

Our certification programme allows your eCos and RedBoot ports to be rigorously tested in our fully automated test farm. This testing facility runs the full eCosPro test suite across hundreds of eCos configurations resulting in over twenty thousand individual test executions. The test results, along with manual code inspection where appropriate, verify the stability and correctness of the code on specific target hardware. Boards can be retained in the test farm to ensure that no regressions occur as the eCos codebase and toolchains evolve over subsequent releases. This is a valuable resource for semiconductor companies, development board manufacturers, and OEMs – especially when developing multiple products on standardized hardware. It ensures that stable releases of eCos, RedBoot and toolchains are maintained for these boards. Once certified, we can integrate your port into an eCosPro release that provides you and your customers with a professionally supported industrial strength version of eCos for your target platforms.

Support

eCosCentric provides a range of standard support options with scope for further customization where required. Our *Advice Line* service puts your engineers directly in touch with our experts for specialist advice on any eCos related topic. Our *Incident Support* service ensures that any software defects that your team identify are dealt with swiftly and effectively. This includes the generation of suitable code patches where appropriate. Responses and solutions are delivered within a guaranteed response time to help minimize down-time and delays to your project. All eCosPro Developer's Kits incorporate our support services as a standard feature.

Consulting

eCosCentric is the leading authority on eCos and RedBoot technologies, with in-depth experience and knowledge of embedded systems that encompasses system software, networking, file systems and device drivers. We have experience of low level programming on all major microcontroller and processor families. Examples of our previous consulting activities include performance and resource usage analysis and tuning, hardware and middleware selection advice, and on-site troubleshooting. Consultancy is backed up with our standard custom engineering, porting, and training services.

Semiconductor Manufacturer and Board Vendor Program

eCosCentric works closely with semiconductor manufacturers and development board vendors to help their customers take full advantage of eCos and RedBoot technology. A popular vehicle for this is the eCosPro Starter Kit. The kits can be made freely available to your customers and contain GNU tools, product license fee & royalty free eCosPro RTOS, and RedBoot bootloader that are fully customized for your hardware. Kits have been commissioned by companies such as Freescale, NXP and Altera for their microprocessor and board products.

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