

How to migrate from a traditional RTOS to Embedded Linux

A workshop for engineers working with realtime and embedded software
4th November - Bracknell

Introduction

Embedded Linux is rapidly encroaching upon application spaces once considered the exclusive domain of embedded kernels like VxWorks, pSOS, and in-house platforms. Industry analysts show embedded Linux and open source garnering up to one third of 32 and 64 bit designs, more than twice the share of any other embedded OS. So, whether you are planning a move to embedded Linux or are just considering the investment needed to convert your existing application to run on embedded Linux, this workshop will help you understand the transition process, assess the challenges and risks involved, and appreciate the benefits realised from such a move.

While Linux increasingly takes the place of traditional RTOSs, executives, and kernels, the architecture of the Linux operating system is very different from legacy OS architectures. Moreover, there exists more than one means to host legacy RTOS based applications on a POSIX-type OS like Linux. Several migration approaches exist and these will be covered during this workshop :

RTOS API emulation over Linux

Runtime partitioning with virtualization

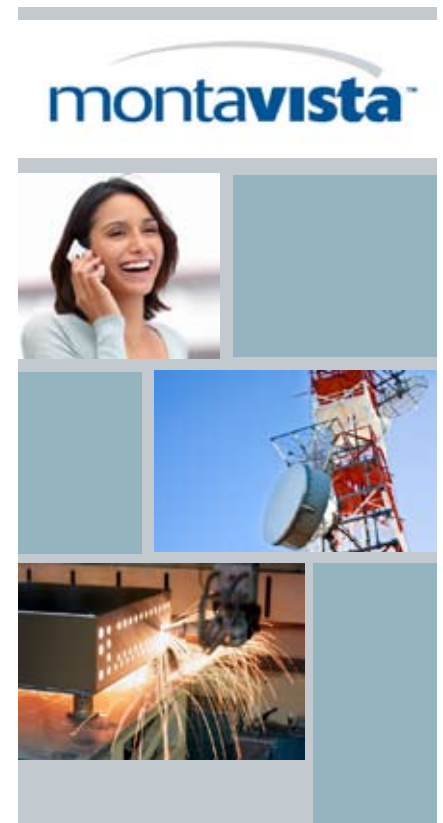
Full native Linux application port

This workshop will give engineers an extensive understanding of the porting process and **will include such issues as the mapping of legacy constructs onto Linux, inter-process communication and synchronisation, context switch implications, process and thread creation, the Linux API and POSIX support.** In addition to this, the workshop will offer a critical analysis of the technical benefits of moving to a Linux based solution, so that engineers will be equipped to evaluate such a migration for their own projects.

Time : 10.00am - 1.00pm, 4th November

Locations : Bracknell

Cost : £95 per engineer



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