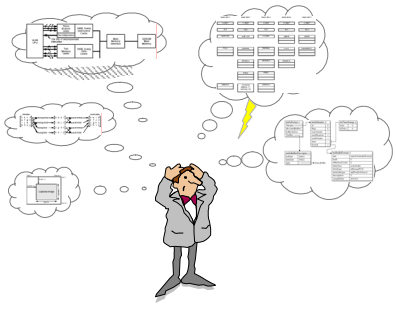
TriMedia Foundation class: a 4-day class

TriMedia Foundation

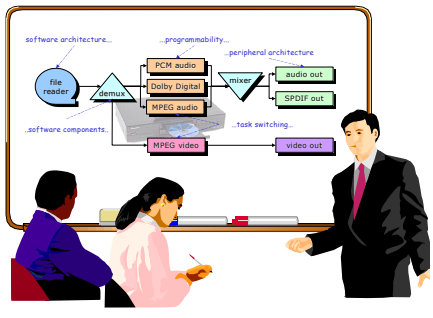
Benefits

- Get started quicker
- Work more productively
- Make better products

After this class engineers and programmers can immediately start work and build TriMedia systems that are well designed and efficient.



Thinking TriMedia?



Get a clear idea.

Contents

This 4-day class introduces all aspects of TriMedia including its implementation in various System on Chip devices. Sessions cover:

- System architecture
- Software architecture
- CPU core architecture
- Peripheral architecture
- Optimization (basics)

System architecture

Learn about TriMedia in its context as a platform for streaming media subsystems. Understand the design choices, why and how to work with TriMedia.

- Context and scope
- Streaming media
- Architectural choices
- Software, core, SoC architectures

Software architecture

TriMedia Software Architecture speeds product development. Learn why and how to use TriMedia Software Architecture: and how to add to it.

- Software architecture principles
- Purpose and use of layers
- Component architecture
- Using and making components
- Device layer programming
- Operating system abstraction
- Development environment
- Component management

CPU core architecture

Learn about the TriMedia CPU core including how to design with it and how to program it effectively.

- CPU architecture
- VLIW and scheduling
- Cache architecture
- using compilation tools
- Simulation and debugging
- Reading schedule reports
- Understanding profile reports
- Using custom operations

System on Chip architecture

TriMedia is designed as the core of System on Chip devices. Learn how it integrates with peripherals and co-processors, and how to program it for these devices.

- Peripheral architecture
- Device layer programming
- Handling interrupts
- Cache issues in SoC
- TriMedia-based SoC devices

Optimization

Optimization is essential. Learn basic strategies that are easy to apply and that work well.

- Compiler optimizations
- Parallel scheduling optimizations
- Memory-based optimizations
- Profiling and schedule reports
- Using custom operations

(We also offer a 4-day Advanced Optimization class.)

Time and arrangements

This class takes 4 days.

It is presented ‘on-site’ by arrangement - the material can be adapted if you have specific needs (at extra cost).

Sometimes we arrange ‘public’ classes: schedules are posted on the Internet:

http://www.bores.com/schedule.htm

Pic’N’Mix

You can design a class to suit your own specific needs. Each of the topics in this TriMedia Foundation class can be a self-contained session, from which you can “pic’n’mix” to make your own class.

Contact us:

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Booking and questions

Call us by ‘phone or send email to book or to ask questions.

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About us

BORES Signal Processing train managers, engineers and programmers to understand and use DSP and streaming media processing.

- established 17 years
- excellent reputation
- worldwide activities
- www.bores.com

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