

## metrowerks

#### **CodeWarrior® for NINTENDO DS™**

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#### **Overview**

- State of CodeWarrior® NINTENDO DS™
- Future releases of CodeWarrior® NINTENDO DS™
- Advanced features in CodeWarrior® NINTENDO DS™

### State of CodeWarrior® NINTENDO DS™

- Project Management and Build tools
  - IDE/Debugger version 5.6
    - Project management for handling of files and dependencies
    - Debugging
      - Ability to drag and drop executables generated on command line
      - Register View and Register details
      - Synchronized multi-core debugging
      - Multi-process/Multi-thread debugging
  - IDE plugins and command line build tools
    - Full C/C++ support
    - Option for generating thumb code
    - Supports interworking
  - Metrowerks Standard Libraries (MSL) C and C++ libraries

### Future releases of CodeWarrior® NINTENDO DS™

#### Release 0.9 (~Late September 2004)

- IDE/Debugger version 5.7
- Overlay Debugging support
- Command Line Debugger interface
- Batch file PRE and POST linker plugins

#### Release 1.0 (~Early October 2004)

- Long veneer branch support
- Watchpoint support
- Simple Profiler
- Cache Viewer

#### Advanced features in CodeWarrior® NINTENDO DS™

#### Overlay support

- IDE organizes overlays using an "overlay group" and a "overlay" hierarchy in the Overlays tab
- Overlay tree is one-level deep
- Linker generates overlay files through directives in the Linker Command File (.LCF) file
- Pre-Linker automagically generates the LCF corresponding to your application with overlays
- Management is done by NITRO SDK functions: FS\_LoadOverlay()
  and FS\_UnloadOverlay()

#### Advanced features in CodeWarrior® NINTENDO DS™

#### Simple profiler

- Turn on by selecting checkbox in Processor Panel or –profile flag for command line tools
- Calls to control the profiler:
  - ProfilerInit(): initializes the profiler
  - ProfilerClear removes existing profiling data
  - ProfilerSetStatus turns profiling on (1) and off (0)
  - ProfilerDump("filename") dumps the profile data to a profiler window or to a file named filename
  - ProfilerTerm exits the profiler
- Easy to navigate profile data viewer within the IDE

#### Advanced features in CodeWarrior® NINTENDO DS™

#### Cache Viewer

- Graphical interface options:
  - Refresh data
  - Write
  - Invalidate one line of the cache
  - Invalidate the entire cache
  - Flush one line of the cache
  - Flush the entire cache
  - View data as Raw and Assembly

# Peanut butter demo time!

#### **Thanks**

Thanks from the Metrowerks Games team!

Come by the Metrowerks table to say Hi