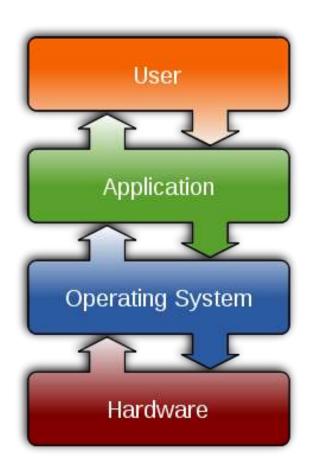
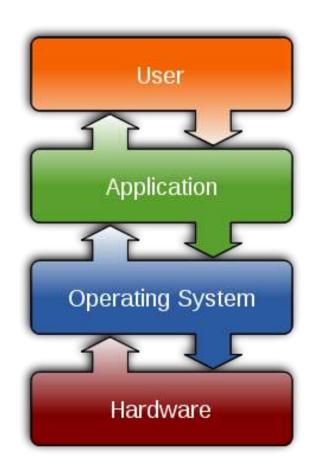
# Introduction to CCSv5

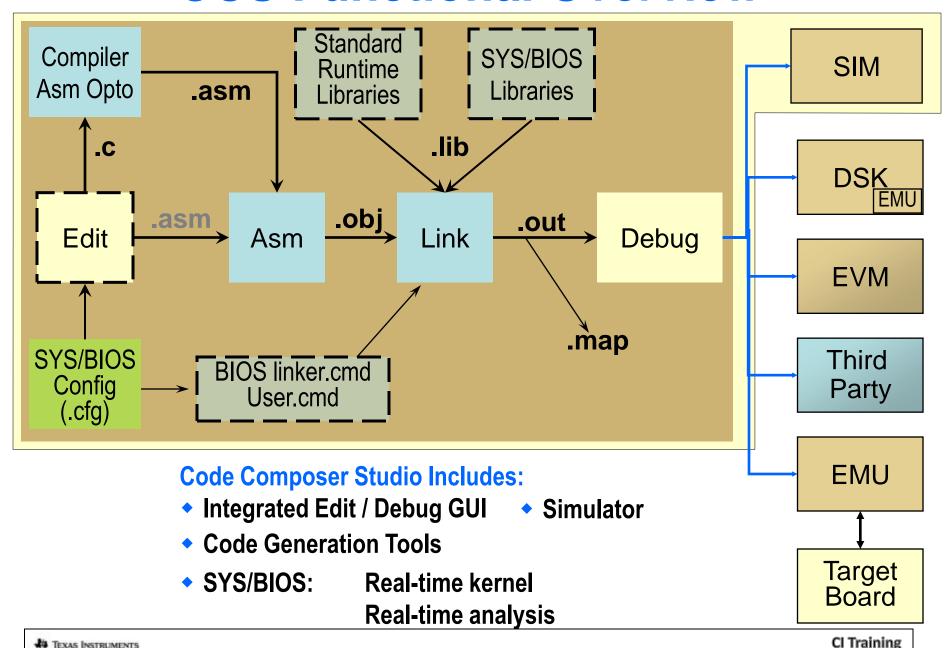
- Intro to CCSv5
  - Functional Overview
  - Perspectives
  - Projects
  - Target Configuration
  - Build Config & Options
  - Licensing/Pricing
  - CCSv5 For More Info...



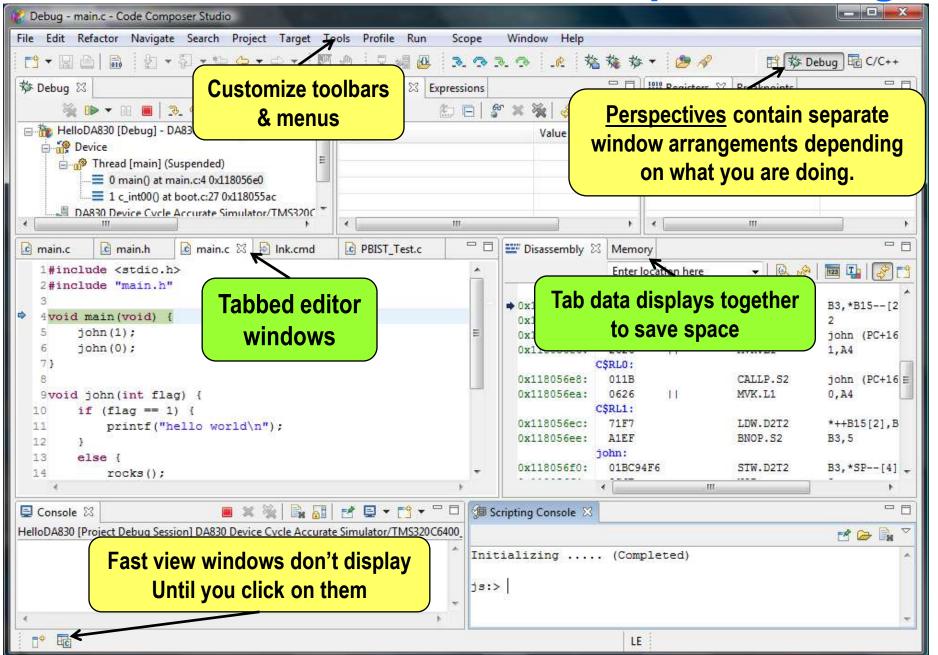
- Intro to CCSv5
  - Functional Overview
  - Perspectives
  - Projects
  - Target Configuration
  - Build Config & Options
  - Licensing/Pricing
  - CCSv5 For More Info...



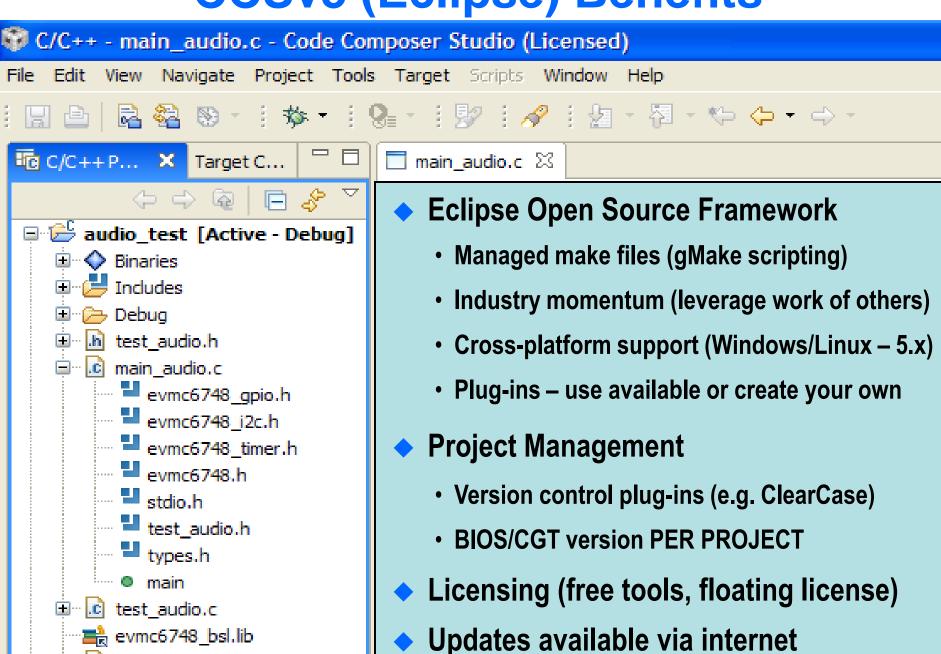
### **CCS Functional Overview**



## CCSv5 "GUI" Environment – Space Saving

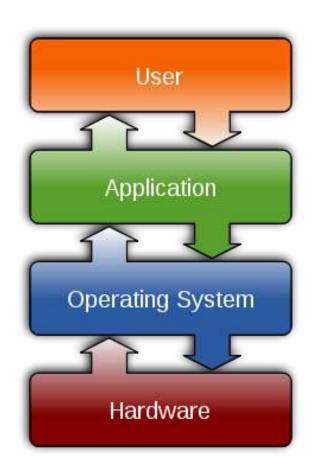


## **CCSv5 (Eclipse) Benefits**



linker dsp.cmd

- Intro to CCSv5
  - Functional Overview
  - Perspectives
  - Projects
  - Target Configuration
  - Build Config & Options
  - Licensing/Pricing
  - CCSv5 For More Info...



## **Perspectives**

- <u>Perspectives</u> a set of windows, views and menus that correspond to a specific set of tasks
- Two <u>default perspectives</u> are provided with CCSv5:

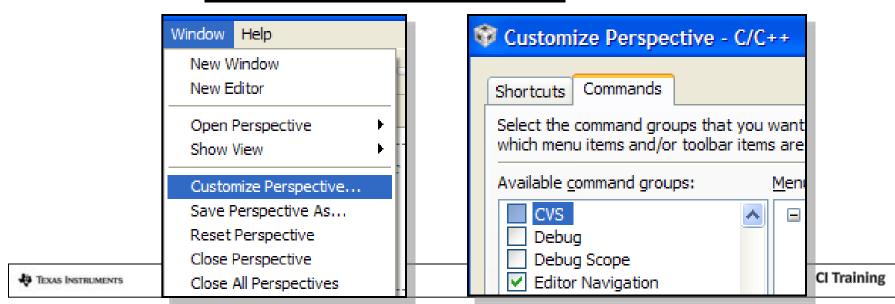
#### Debug

- Debug Views
- Watch/Memory
- Graphs, etc.

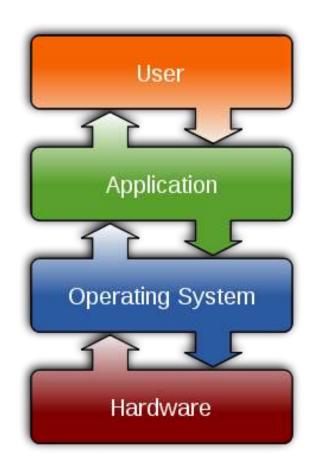


#### **C/C++**

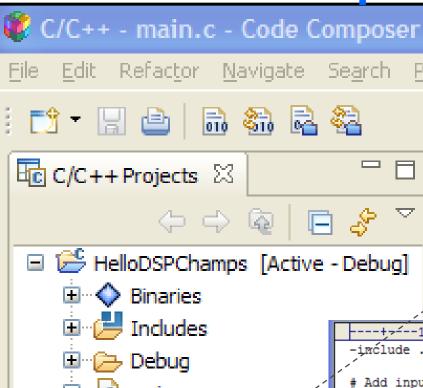
- Code Dev't Views
- Project Contents
- Editor
- Users can <u>customize perspectives</u> and save them:



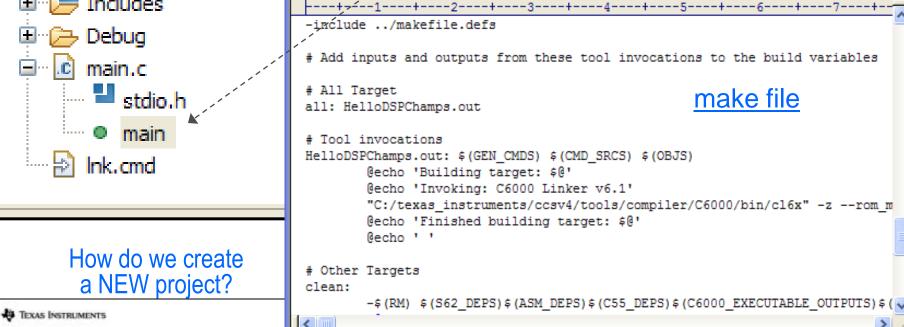
- Intro to CCSv5
  - Functional Overview
  - Perspectives
  - Projects
  - Target Configuration
  - Build Config & Options
  - Licensing/Pricing
  - CCSv5 For More Info...



Eclipse "Projects"

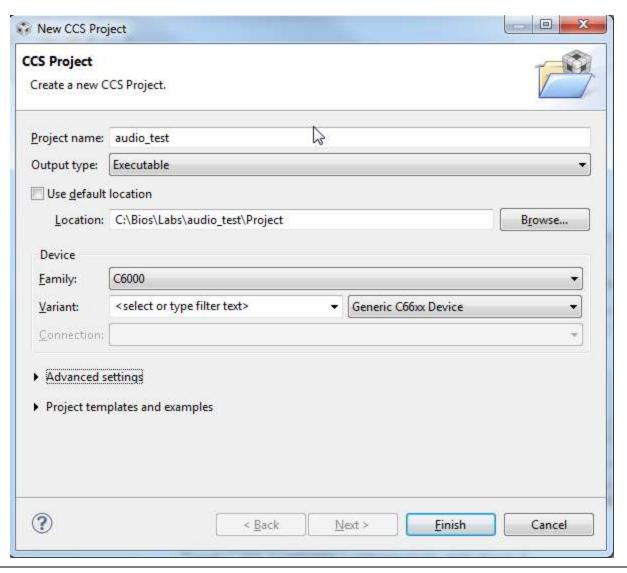


- CCSv5 is PROJECT-centric
- Eclipse uses <u>managed makefiles</u> as their build scripts – as opposed to <u>pjt</u> files
- Eclipse projects are folder based
  - "Adding file" copies it to folder
  - "Linking file" references original file
  - Project explorer shows folder contents
- Project explorer lists functions

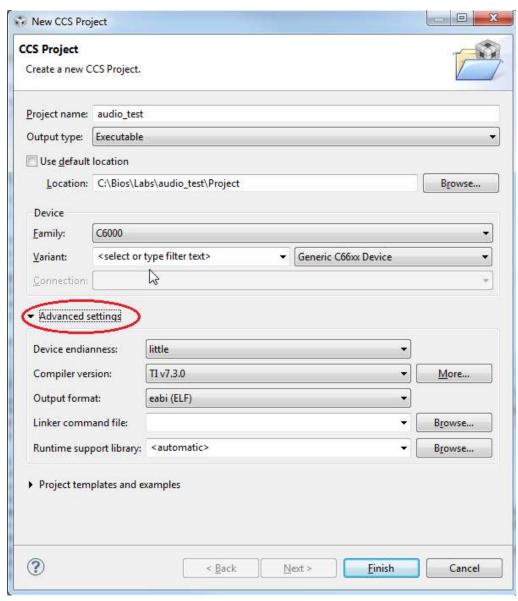


# **Creating a New Project (1)**

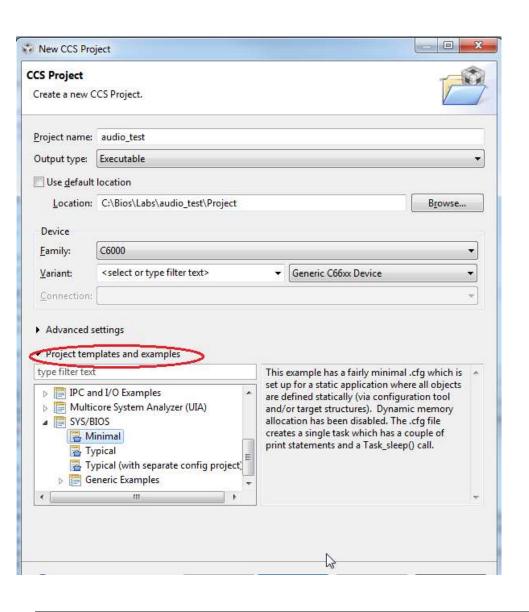
File→New→CCS Project (in C++ perspective)



# **Creating a New Project (2)**



# **Creating a New Project (3)**



- **➤ Not using SYS/BIOS?** 
  - **≻**Choose "Empty Project"
- **>Using SYS/BIOS?** 
  - Choose "Minimal" under SYS/BIOS

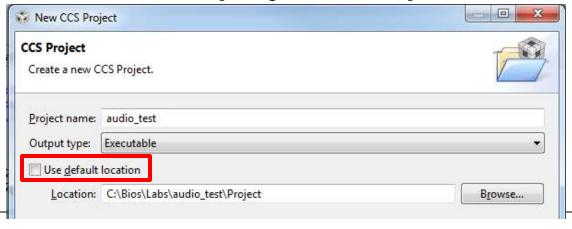
## **Eclipse "Workspace"**

- Workspace a "container" for Eclipse metadata and the default location for all projects
- Default Location: \My Documents\workspace:

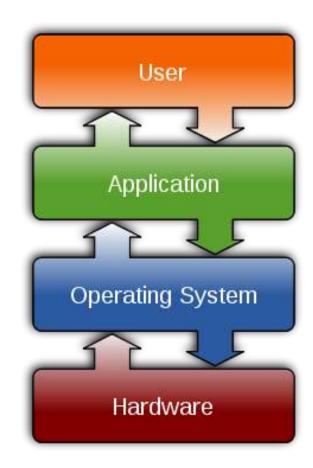


- Can change "default" workspace location if desired
- User can also locate projects in specific folders:

TEXAS INSTRUMENTS

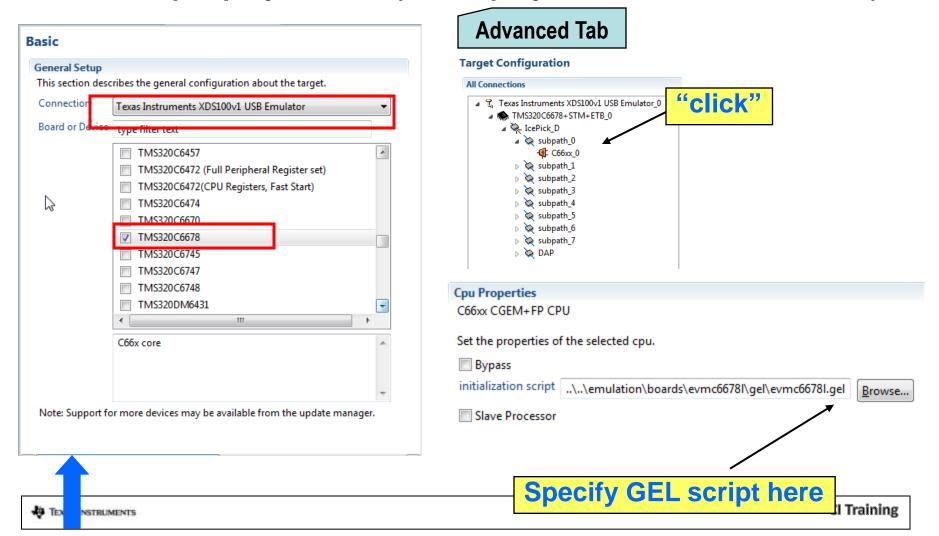


- Intro to CCSv5
  - Functional Overview
  - Perspectives
  - Projects
  - Target Configuration
  - Build Config & Options
  - Licensing/Pricing
  - CCSv5 For More Info...
- Intro to SYS/BIOS

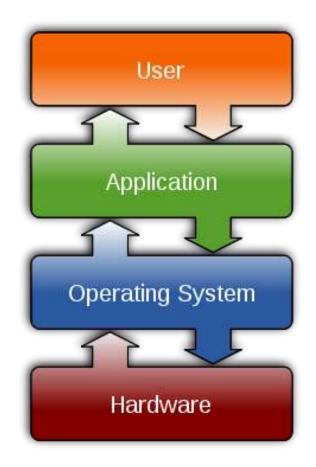


### **Creating a New Target Config File (.ccxml)**

- Target Configuration defines your "target" i.e. emulator/device used, GEL scripts (replaces the old CCS Setup)
- Use on a per-project basis (add to project or create User Defined)



- Intro to CCSv5
  - Functional Overview
  - Perspectives
  - Projects
  - Target Configuration
  - Build Config & Options
  - Licensing/Pricing
  - CCSv5 For More Info...



# **Two Default Build Configurations**

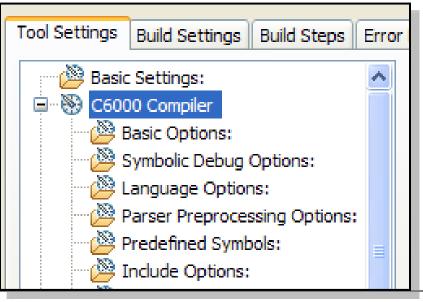
- <u>Build Configuration</u> a set of build options for the compiler and linker (e.g. optimization levels, include DIRs, debug symbols, etc.)
- CCSv5 comes std with two DEFAULT build configs: Debug & Release:

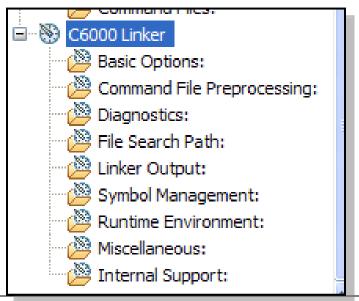


User can create their own config if desired

User can modify compiler/linker options via "Build Properties":

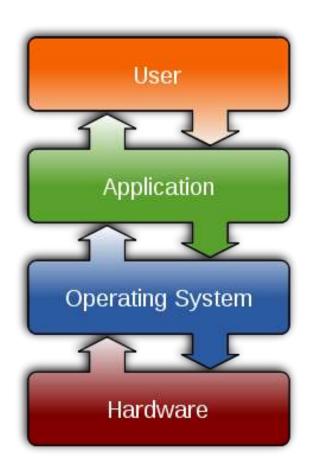
**Compiler** Linker





**CI Training** 

- Intro to CCSv5
  - Functional Overview
  - Perspectives
  - Projects
  - Target Configuration
  - Build Config & Options
  - Licensing/Pricing
  - CCSv5 For More Info...



### **CCSv5 Licensing & Pricing**

#### Licensing

- Wide variety of options (node locked, floating, time based...)
- All versions (full, DSK, free tools) use same image
- Updates readily available via the internet

#### Pricing

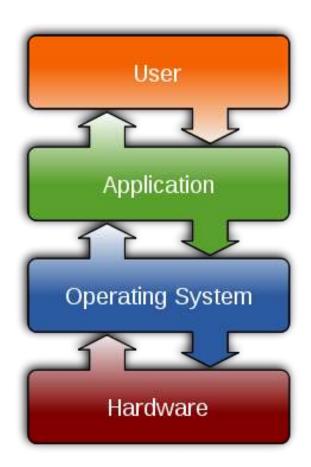
Reasonable pricing – includes FREE options noted below



Item	Description	Price
Platinum Eval Tools	Full tools with 30 day limit (all EMU)	FREE
Platinum Bundle	EVM, sim, XDS100 use	FREE ©
Platinum Node Locked	Full tools tied to a machine	\$495 (1)
Platinum Floating	Full tools shared across machines	\$795 (1)
Microcontroller Core	MSP/C2000 code size limited	FREE
Microcontroller Node Locked	MSP/C2000	\$445

© - recommended option: purchase Dev Kit, use XDS100v1-2, & Free CCSv5

- Intro to CCSv5
  - Functional Overview
  - Perspectives
  - Projects
  - Target Configuration
  - Build Config & Options
  - Licensing/Pricing
  - **♦** CCSv5− For More Info...



#### CCSv5 – For More Info...

#### Links for:

- Downloading CCSv5
- Installation Help
- Licensing
- Tutorials
- BIOS Projects
- Etc.



## **Questions?**