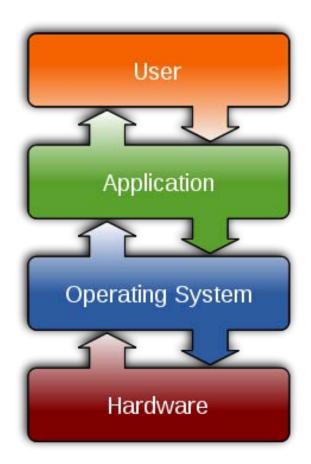
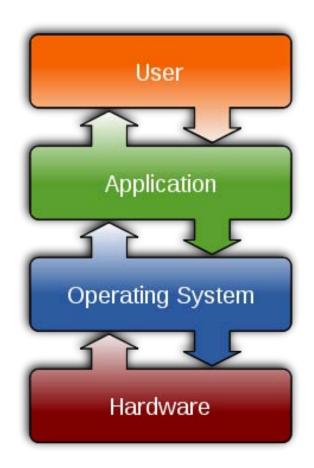
# Introduction to CCSv5

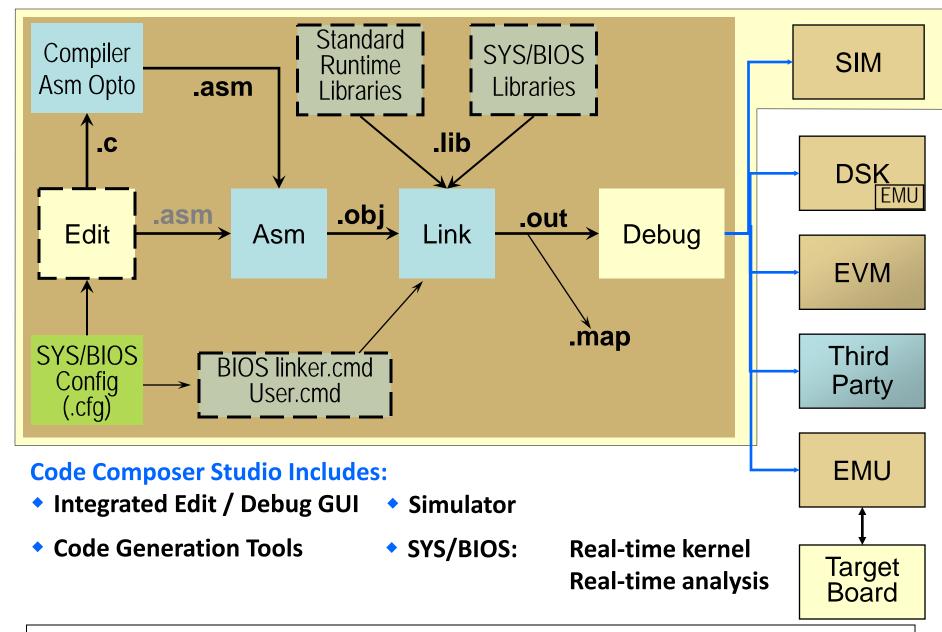
- Intro to CCSv5
  - **Functional Overview**
  - **Perspectives**
  - **Projects**
  - **Target Configuration**
  - **Build Config & Options**
  - **Licensing/Pricing**
  - CCSv5 For More Info...



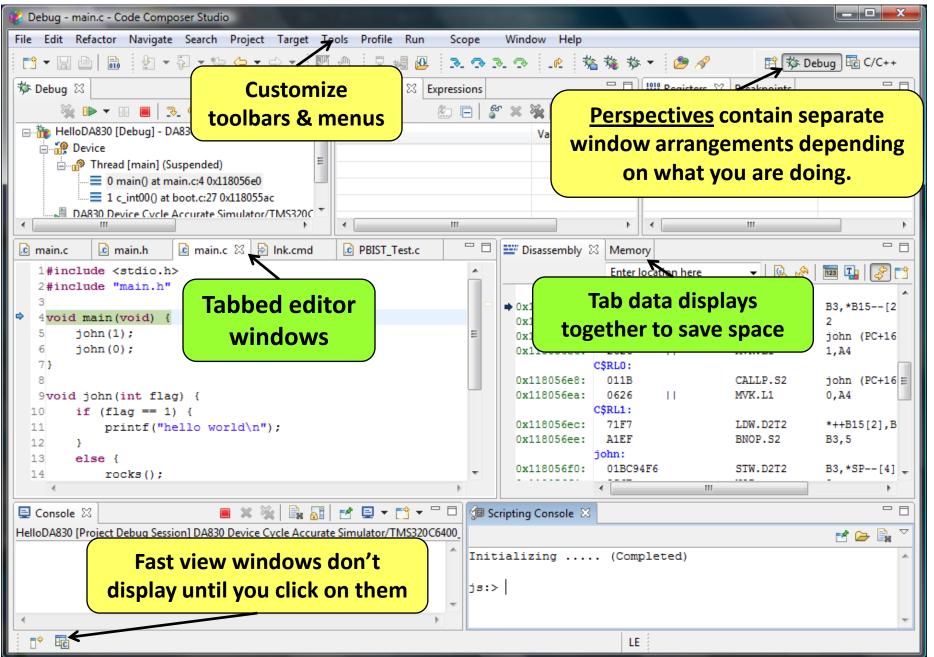
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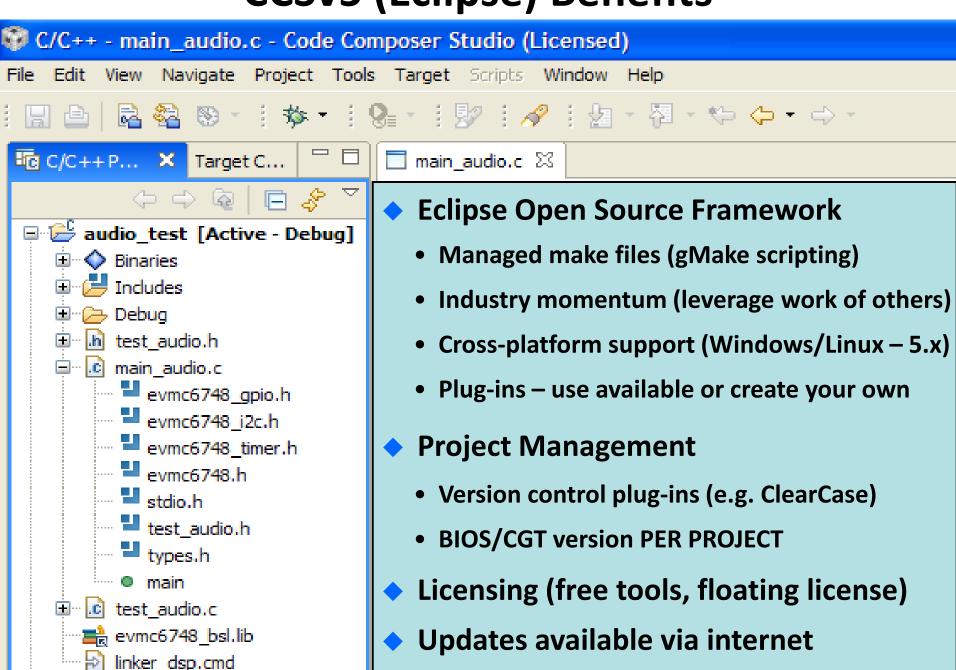
### **CCS Functional Overview**



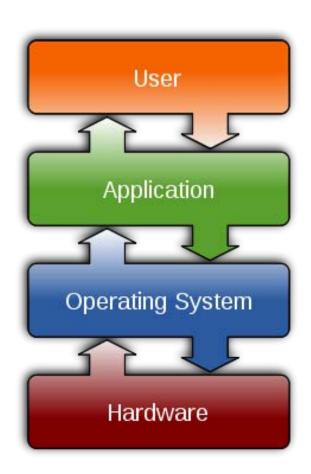
## CCSv5 "GUI" Environment – Space Saving



# **CCSv5** (Eclipse) Benefits



- Intro to CCSv5
  - Functional Overview
  - **Perspectives**
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### **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:

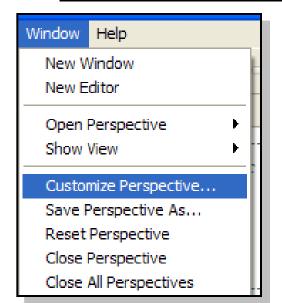
#### **Debug**

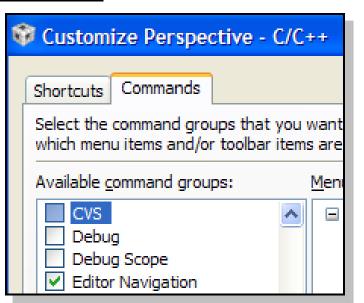
- Debug Views
- Watch/Memory
- Graphs, etc.



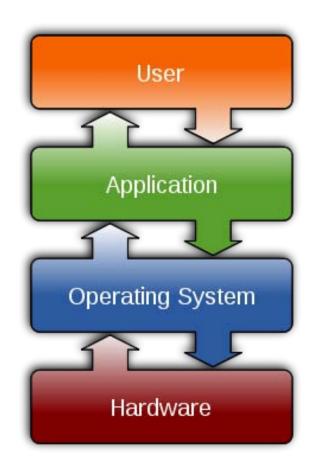
#### **C/C++**

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

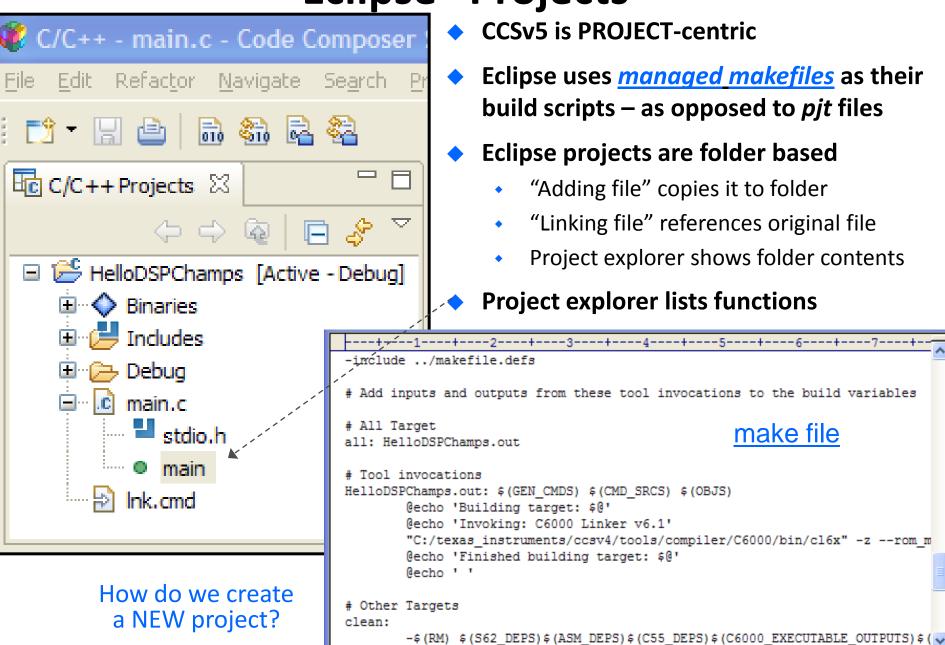




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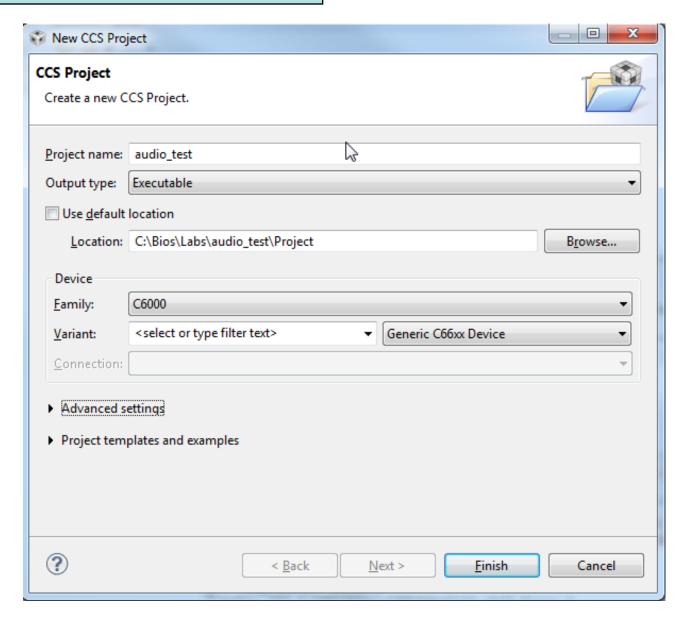


**Eclipse "Projects"** 

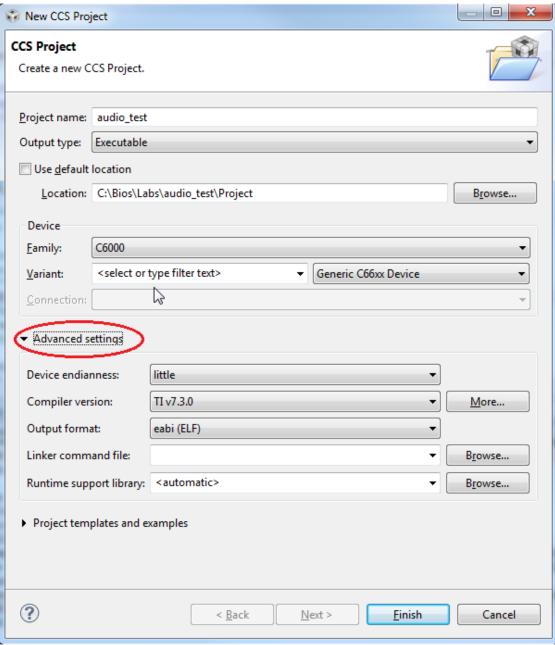


## **Creating a New Project (1)**

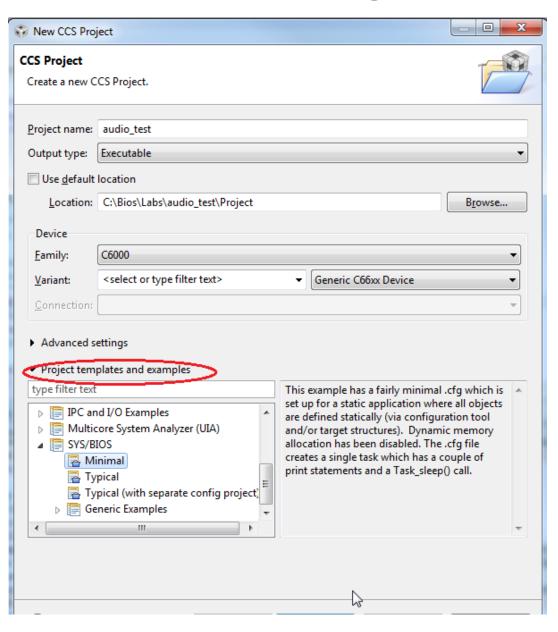
File→New→CCS Project (in C++ perspective)



**Creating a New Project (2)** 



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



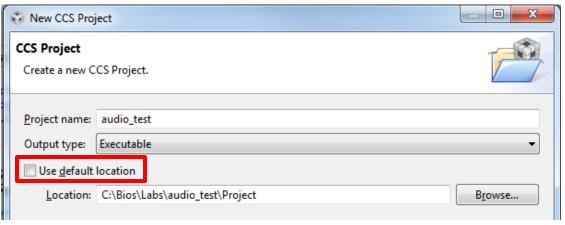
- Not using SYS/BIOS?
  - Choose "Empty Project"
- Using SYS/BIOS?
  - Choose "Minimal" under SYS/BIOS

## Eclipse "Workspace"

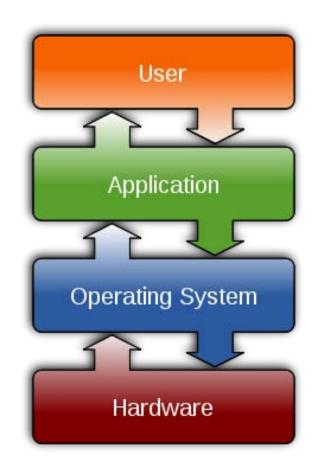
- Workspace A "container" for Eclipse metadata and the default location for all projects
- Default Location: \My Documents\workspace:



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

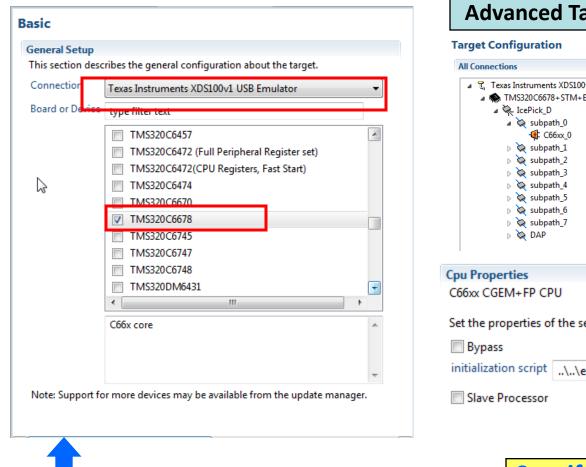


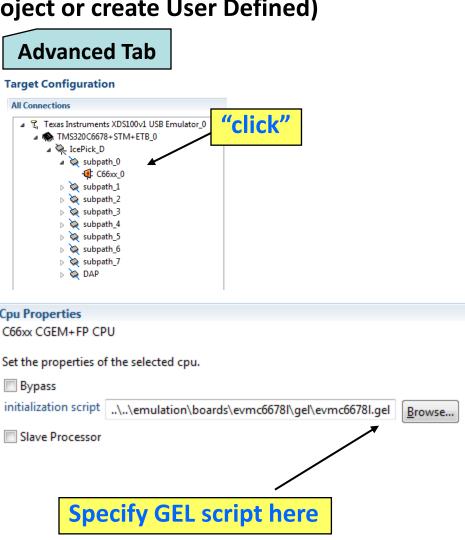
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  - CCSv5 For More Info...
- Intro to SYS/BIOS



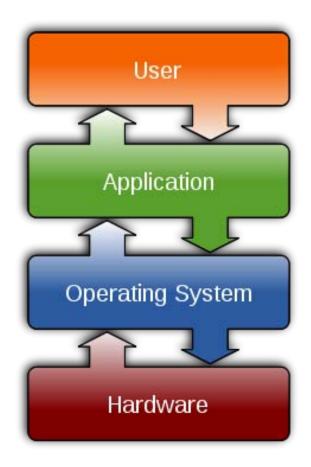
### **Creating a New Target Config File (.ccxml)**

- <u>Target Configuration</u> 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)





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### **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 &

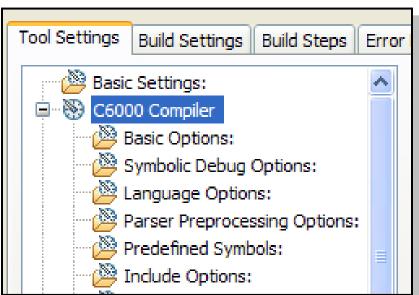
**Release:** 



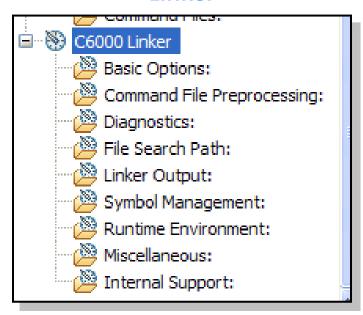
User can create their own config if desired

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

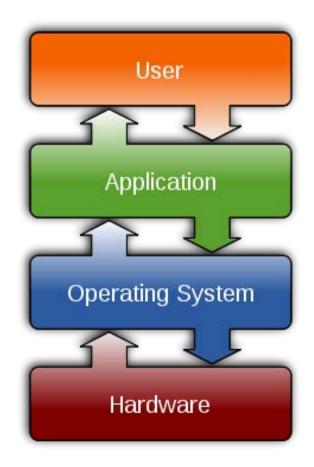
Compiler



#### Linker



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**Multicore Training** 

### **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



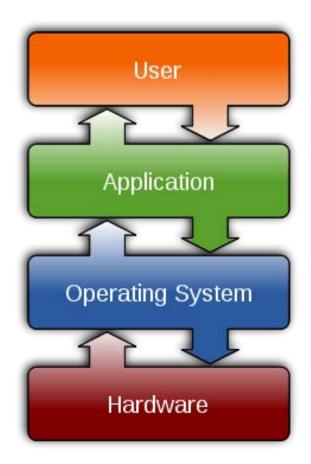
Texas Instruments



| 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

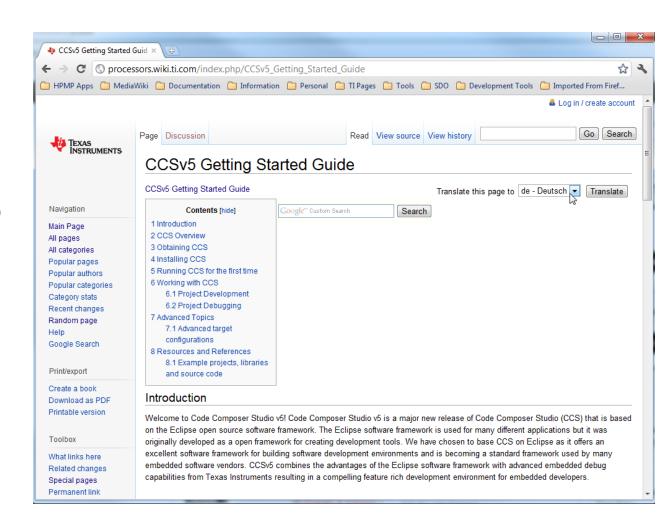
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#### CCSv5 – For More Information

#### Links for:

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



# **Questions?**