CODE COMPOSER STUDIO

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Steps for using Code Composer Studio and DSK Trainer Kit

- Initials steps for setting the Code Composer Studio
  - Double click “Setup Code Composer V3.1” icon on the desktop
  - Remove all boards available
  - Select **Family** ⟶ **C67XX**
  - **Platform** ⟶ **Simulator**
  - From the listed available boards, select “**C6713 Device Cycle Accurate Simulator**”
  - Click Add button
  - Click Save & Quit button
  - A dilogue box will be shown indicating a message “Start Code Composer Studio on exit”
  - Click yes button
  - Then Code Composer Studio Programming environment opens up

Programming Steps - Code Composer Studio

- From the Project menu Select New
- Save the project with a file name, Eg. **“sinewave.pjt”**
  - **Location** : C:/CCStudio_v3.1\MyProjects\
  - **Project Type** : Executable(.out)
  - **Target** : TMS320C67XX
- In the left side of CCS, under the projects sinewave.pjt will be seen. Click on the + icon
- to see the complete details.
- **File Menu** ⟶ **New** ⟶ **Source File**
- Type the program in that file and save it with extension „.c“ Eg. “sinewave.c”

Programming Steps

- Click Project ⟶ Add Files to Project ⟶ Add “sinewave.c”
- Click Project ⟶ Add Files to Project ⟶ Add the support files “hello.cmd” & “rts6700.lib”
- Click Project ⟶ Scan All File Dependencies.
- If any files are to be added to the project, it is shown under the heading “include”
- **Compile** : Project ⟶ Compile File
- **To build** : Project ⟶ build
- **To Load program**: File ⟶ Load Program “sinewave.out” from Debug folder
- To execute project :Debug ⟶ Run

To observe the output waveform

- From the view menu ⟶ Select Graph ⟶ Select Time/Frequency
- **Start Address** : variable name, eg. „a"
- **Acquisition Buffer Size** : variable size, eg. „100"
- **Display Data Size** : same eg. „100"
- **DSP Data Type** : 32-bit IEEE floating point