CodeXL

File Edit View Debug Profile Tools Window Help

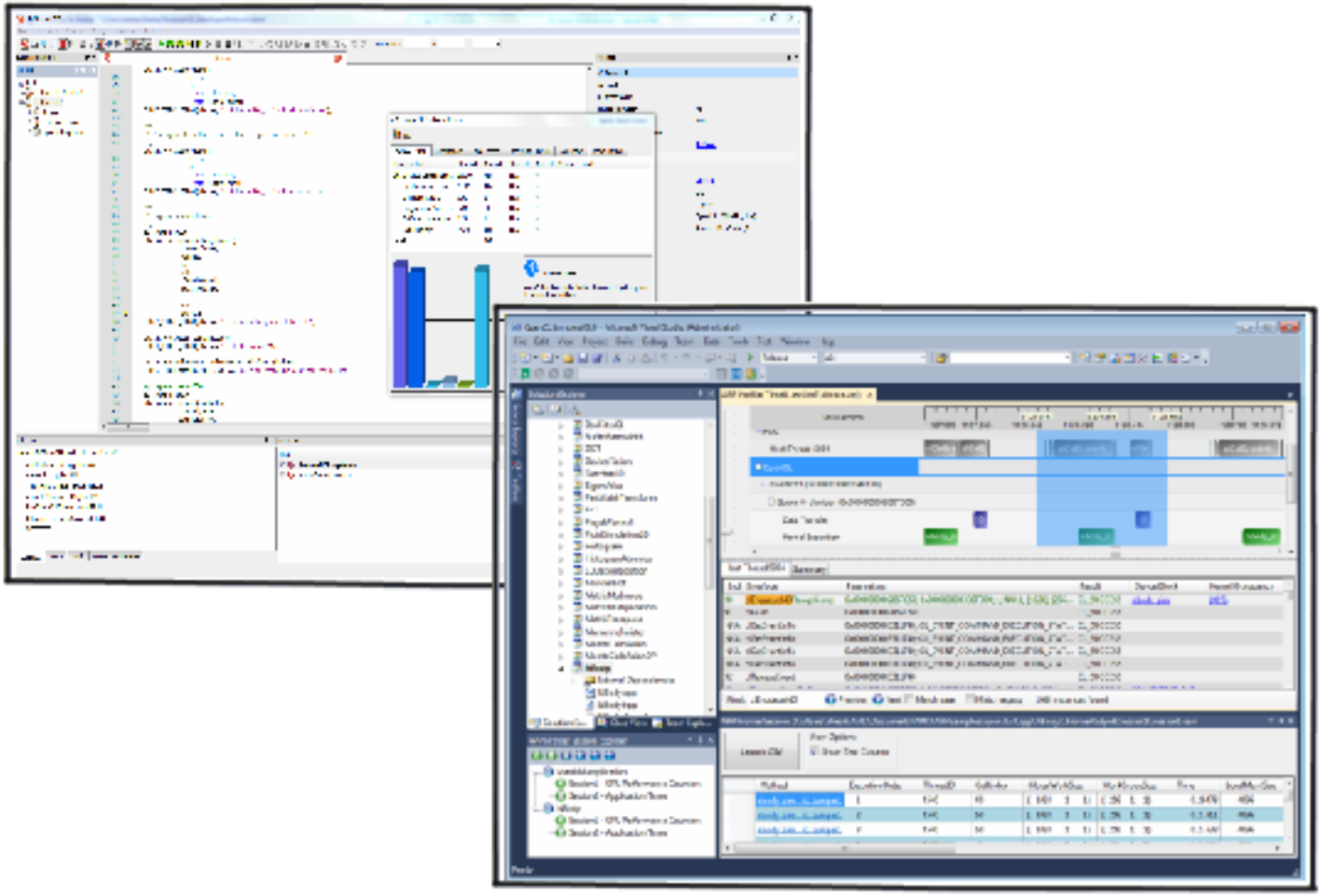
D P

CodeXL Welcome Screen

Create new Project

Open a Project

Load the Teapot sample



Recent Projects

DCT (Profile mode)

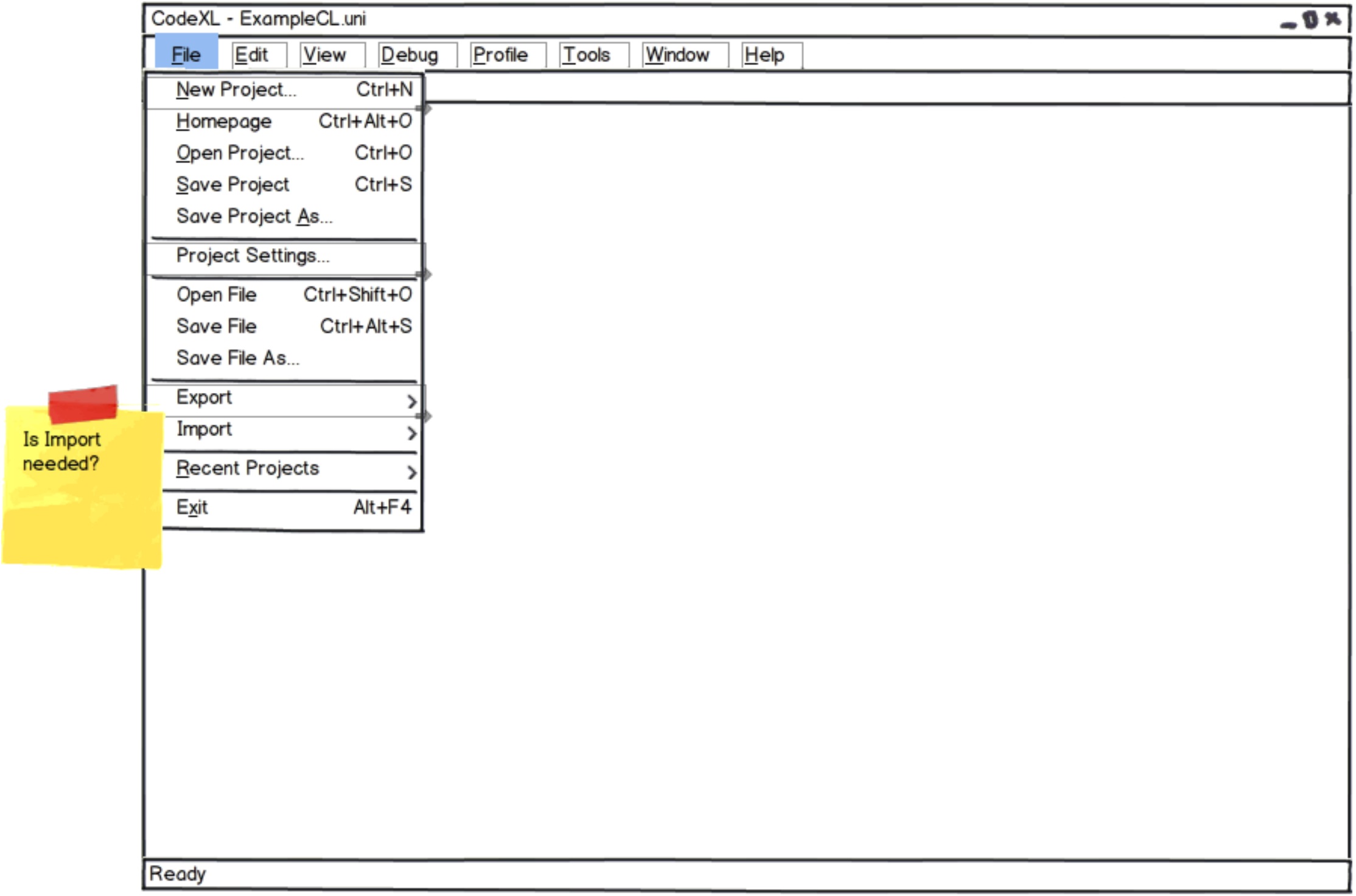
Mandelbrot (Debug mode)

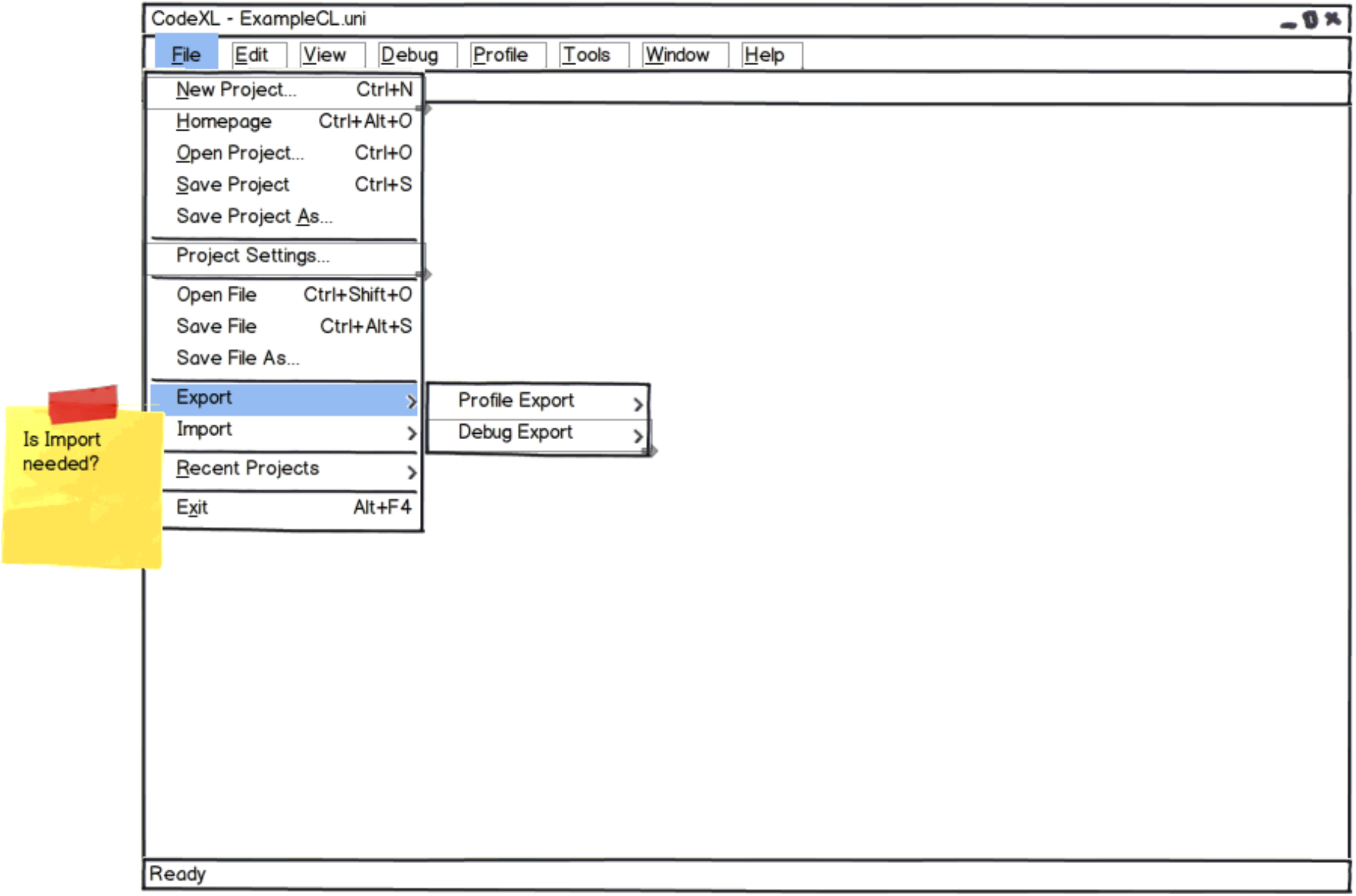
URNG (Debug mode)

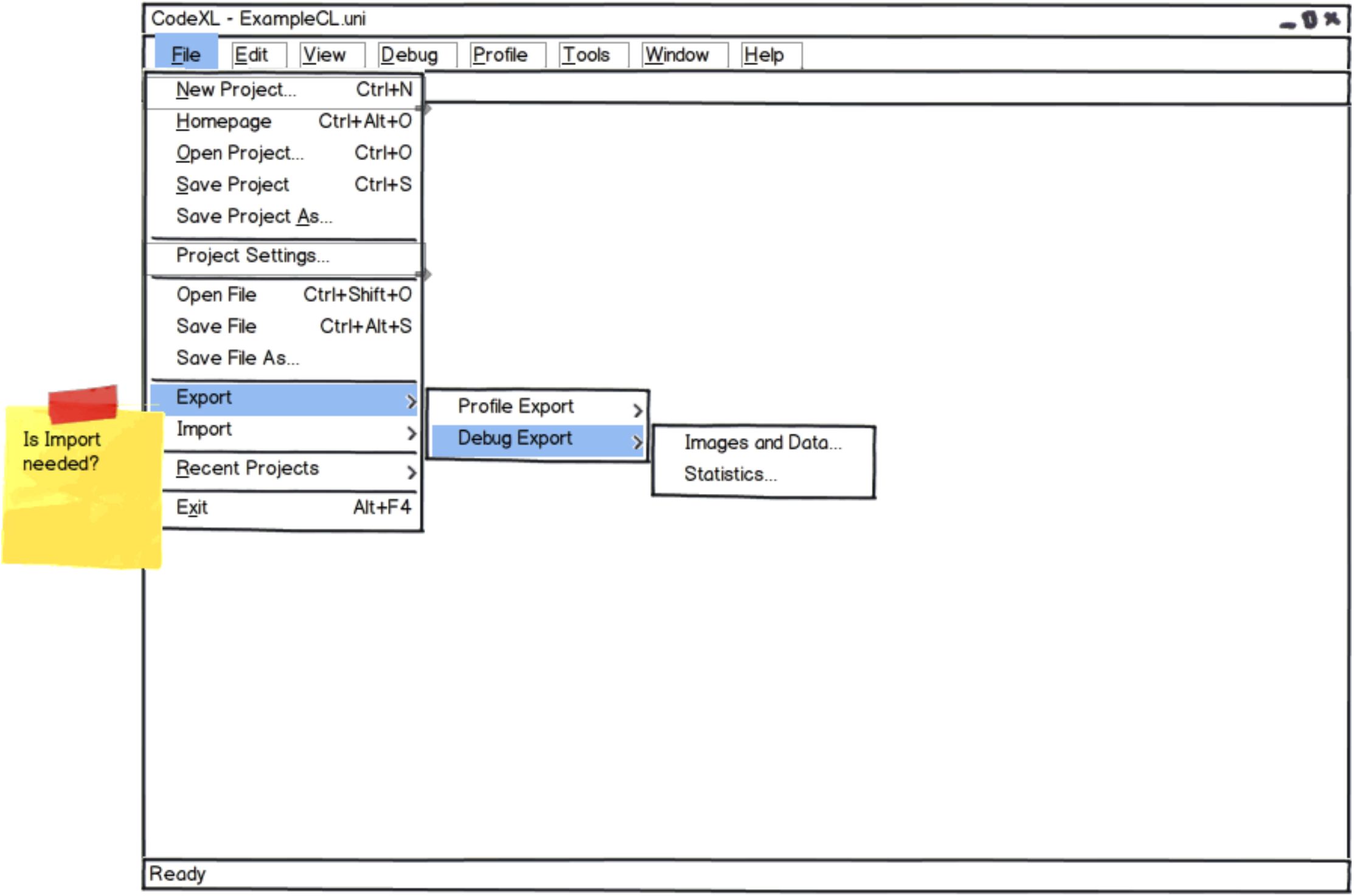
ExampleCL (Debug mode)

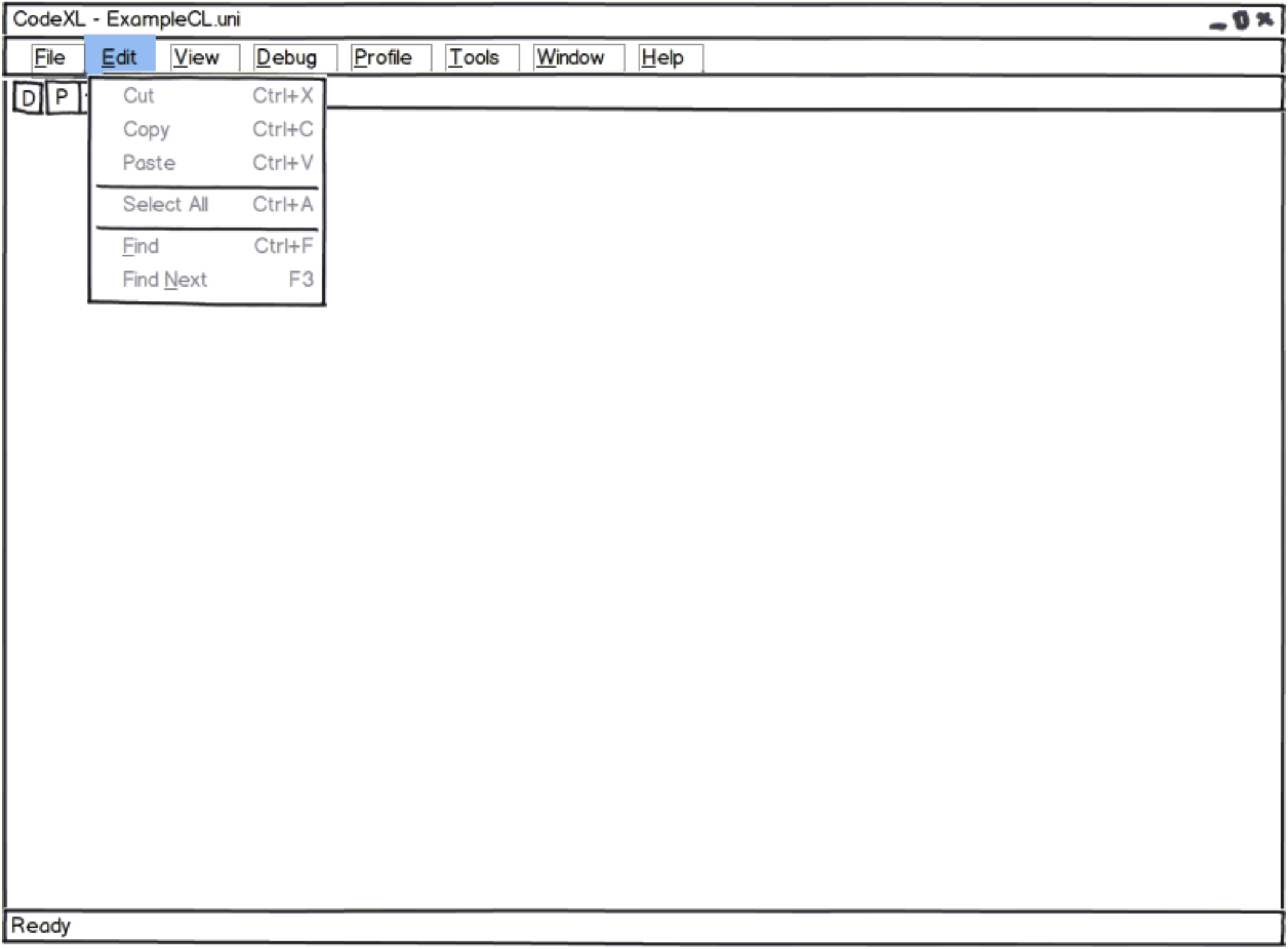
ExampleCL (Profile mode)

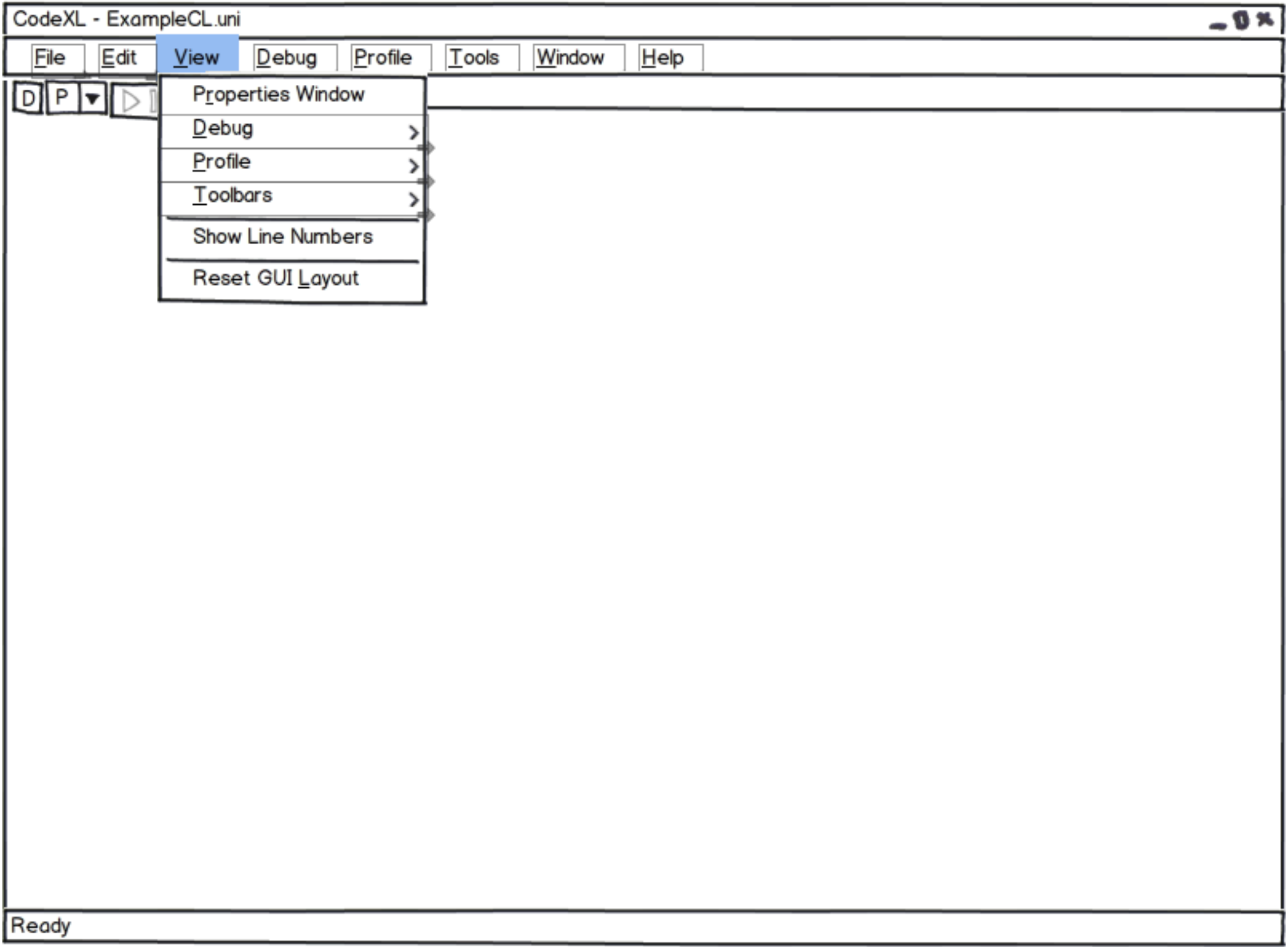
Ready

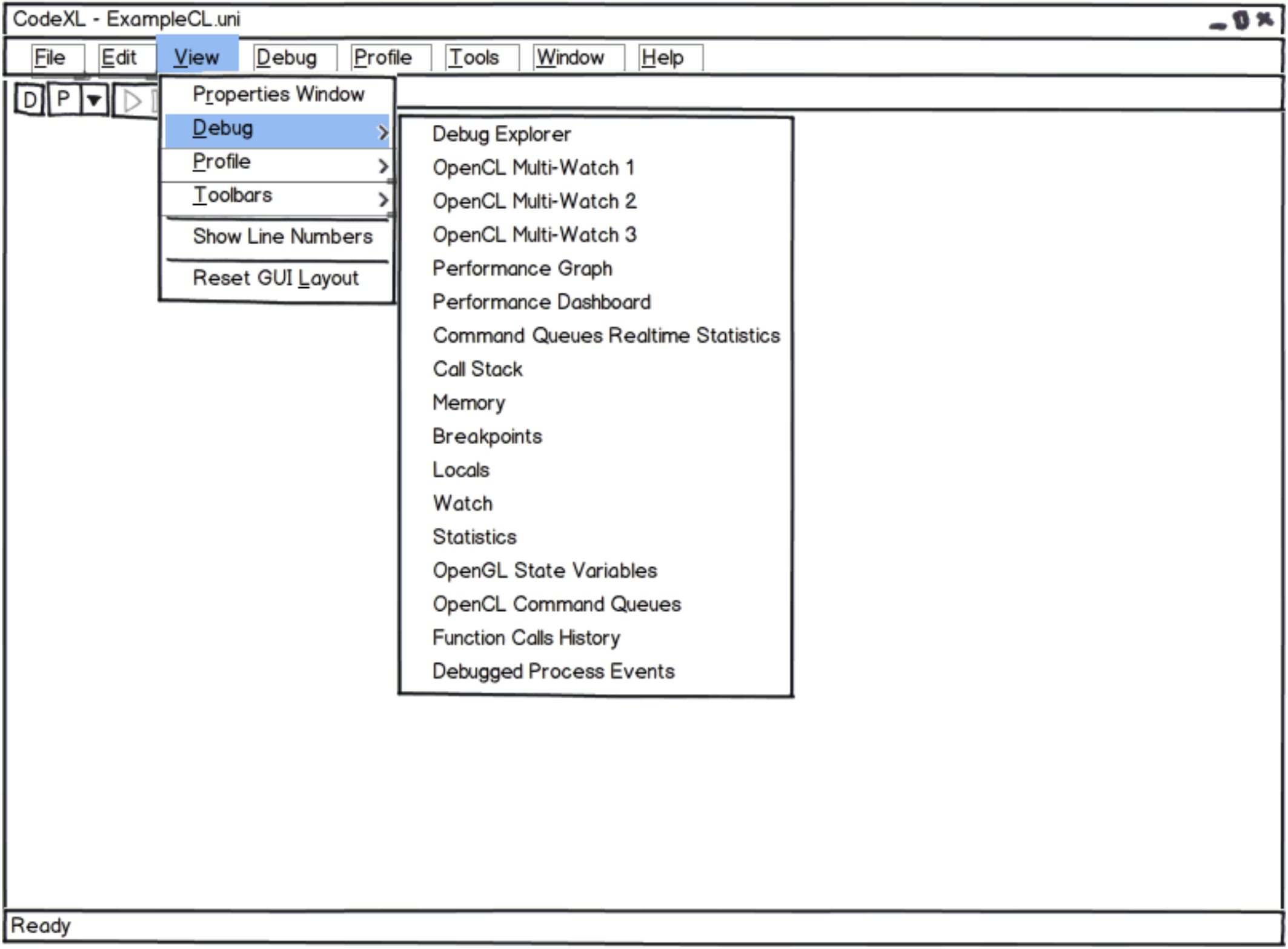

CodeXL - ExampleCL.uni
File
Edit
View
Debug
Profile
Tools
Window
Help
New Project... Ctrl+N
Homepage Ctrl+Alt+O
Open Project... Ctrl+O
Save Project Ctrl+S
Save Project As...
Project Settings...
Open File Ctrl+Shift+O
Save File Ctrl+Alt+S
Save File As...
Export
Import
Recent Projects
Exit Alt+F4
Is Import needed?
Ready

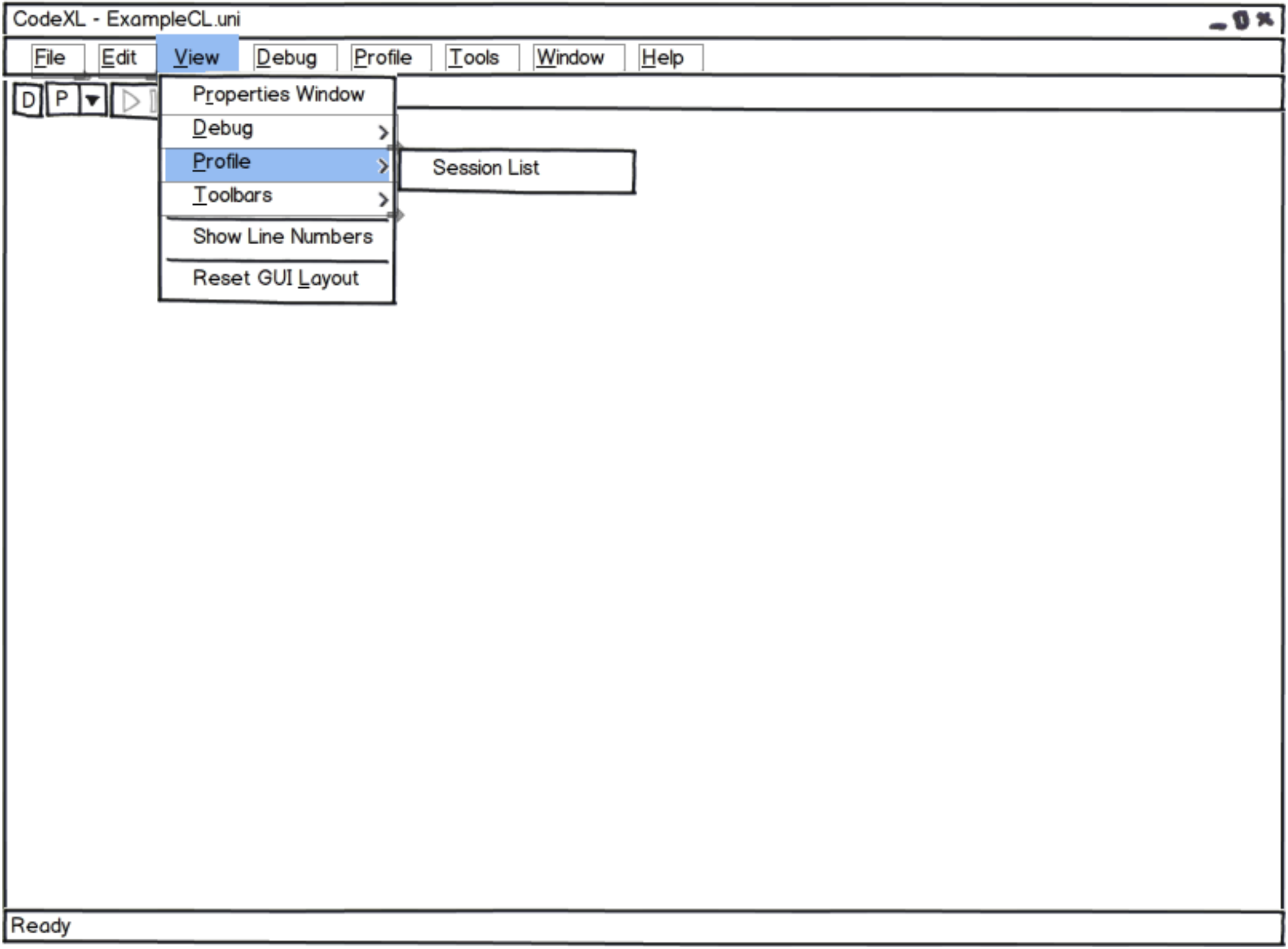

CodeXL - ExampleCL.uni
File
Edit
View
Debug
Profile
Tools
Window
Help
New Project... Ctrl+N
Homepage Ctrl+Alt+O
Open Project... Ctrl+O
Save Project Ctrl+S
Save Project As...
Project Settings...
Open File Ctrl+Shift+O
Save File Ctrl+Alt+S
Save File As...
Export
Import
Recent Projects
Exit Alt+F4
Profile Export
Debug Export
Is Import needed?
Ready

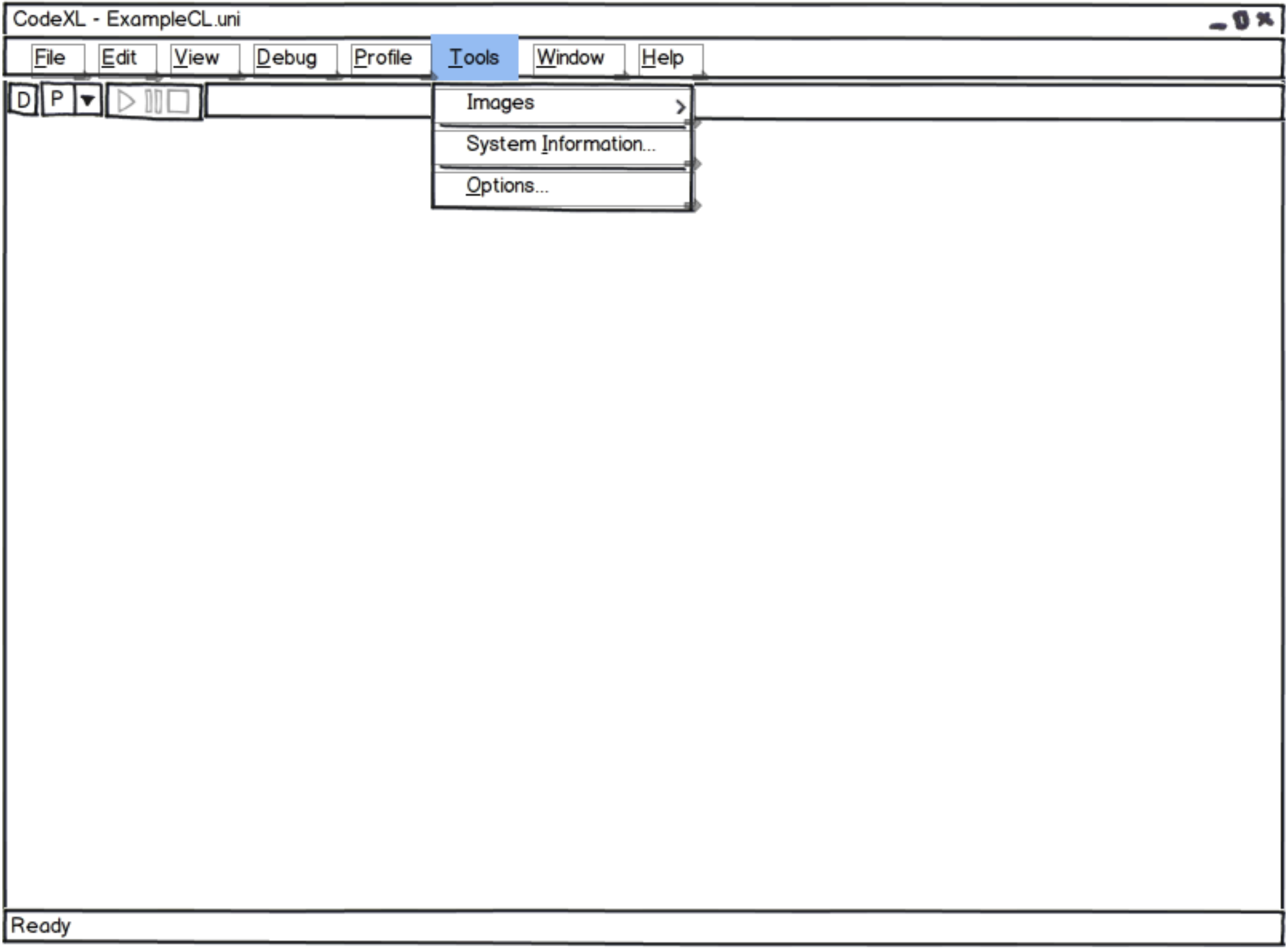

CodeXL - ExampleCL.uni
File
Edit
View
Debug
Profile
Tools
Window
Help
New Project... Ctrl+N
Homepage Ctrl+Alt+O
Open Project... Ctrl+O
Save Project Ctrl+S
Save Project As...
Project Settings...
Open File Ctrl+Shift+O
Save File Ctrl+Alt+S
Save File As...
Export
Import
Recent Projects
Exit Alt+F4
Profile Export
Debug Export
Images and Data...
Statistics...
Is Import needed?
Ready

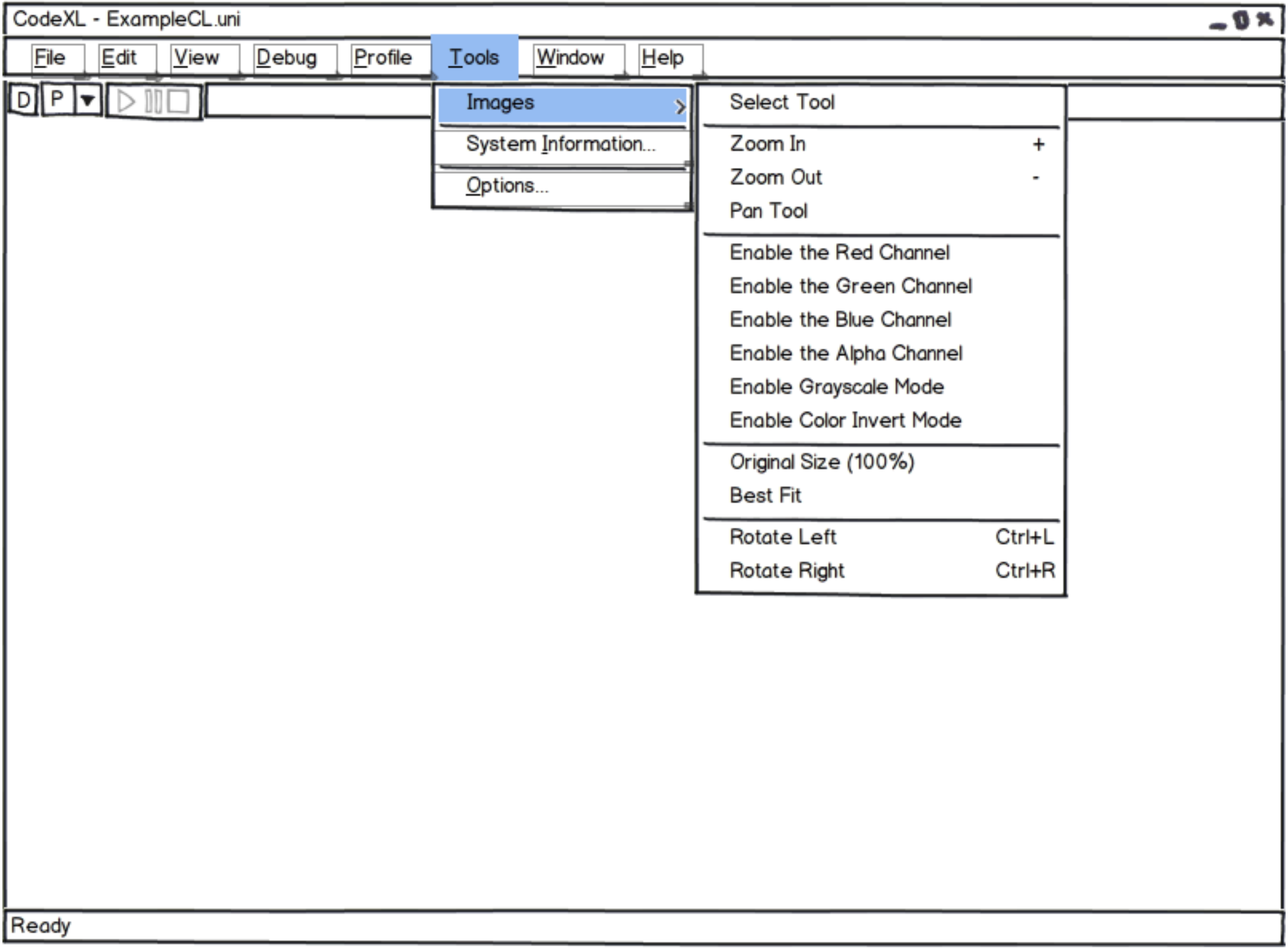

CodeXL - ExampleCL.uni
File
Edit
View
Debug
Profile
Tools
Window
Help
D
P
Cut Ctrl+X
Copy Ctrl+C
Paste Ctrl+V
Select All Ctrl+A
Find Ctrl+F
Find Next F3
Ready

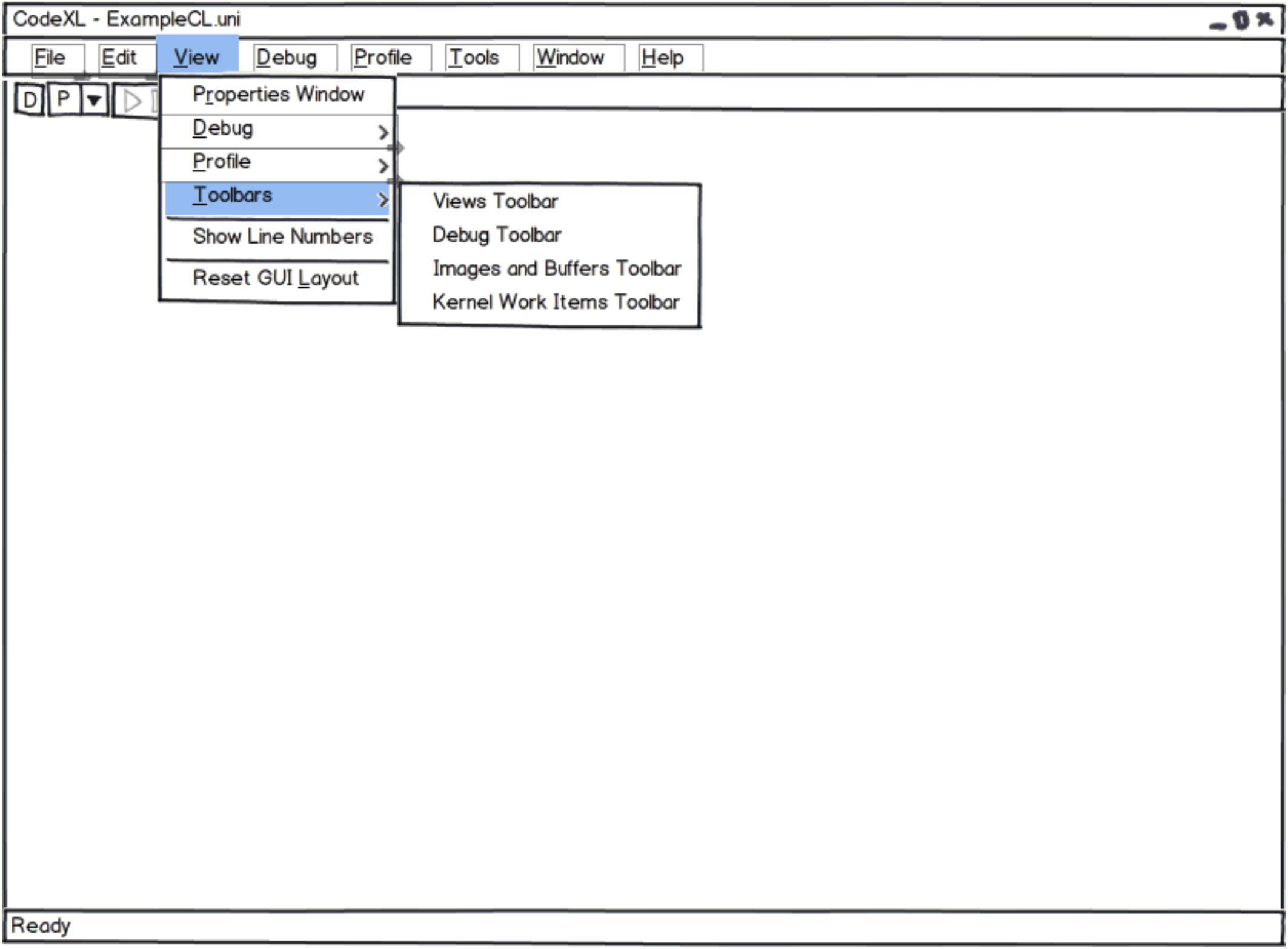

CodeXL - ExampleCL.uni
File
Edit
View
Debug
Profile
Tools
Window
Help
D
P
Properties Window
Debug
Profile
Toolbars
Show Line Numbers
Reset GUI Layout
Ready

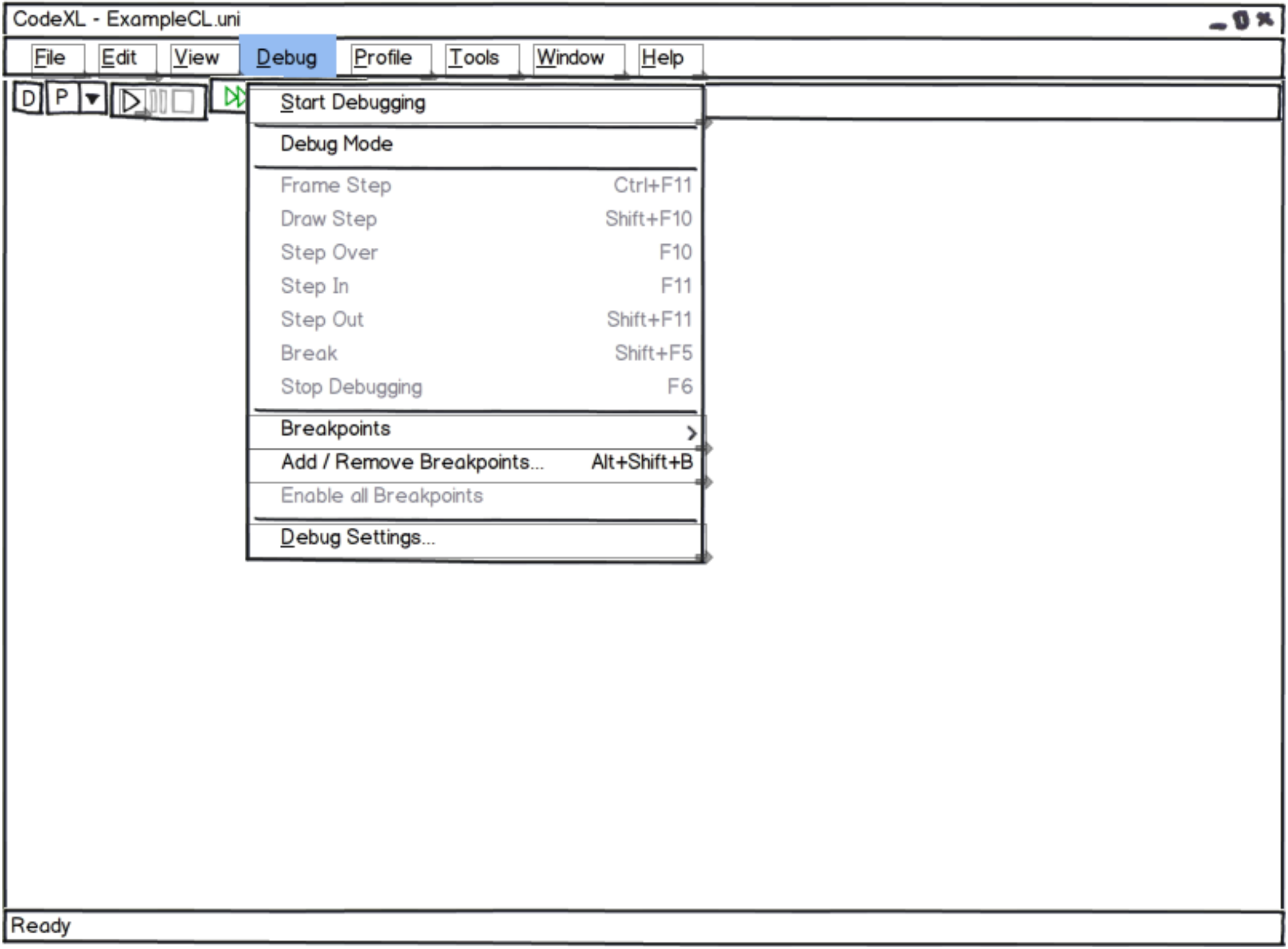

CodeXL - ExampleCL.uni
File
Edit
View
Debug
Profile
Tools
Window
Help
D
P
Properties Window
Debug
Profile
Toolbars
Show Line Numbers
Reset GUI Layout
Debug Explorer
OpenCL Multi-Watch 1
OpenCL Multi-Watch 2
OpenCL Multi-Watch 3
Performance Graph
Performance Dashboard
Command Queues Realtime Statistics
Call Stack
Memory
Breakpoints
Locals
Watch
Statistics
OpenGL State Variables
OpenCL Command Queues
Function Calls History
Debugged Process Events
Ready

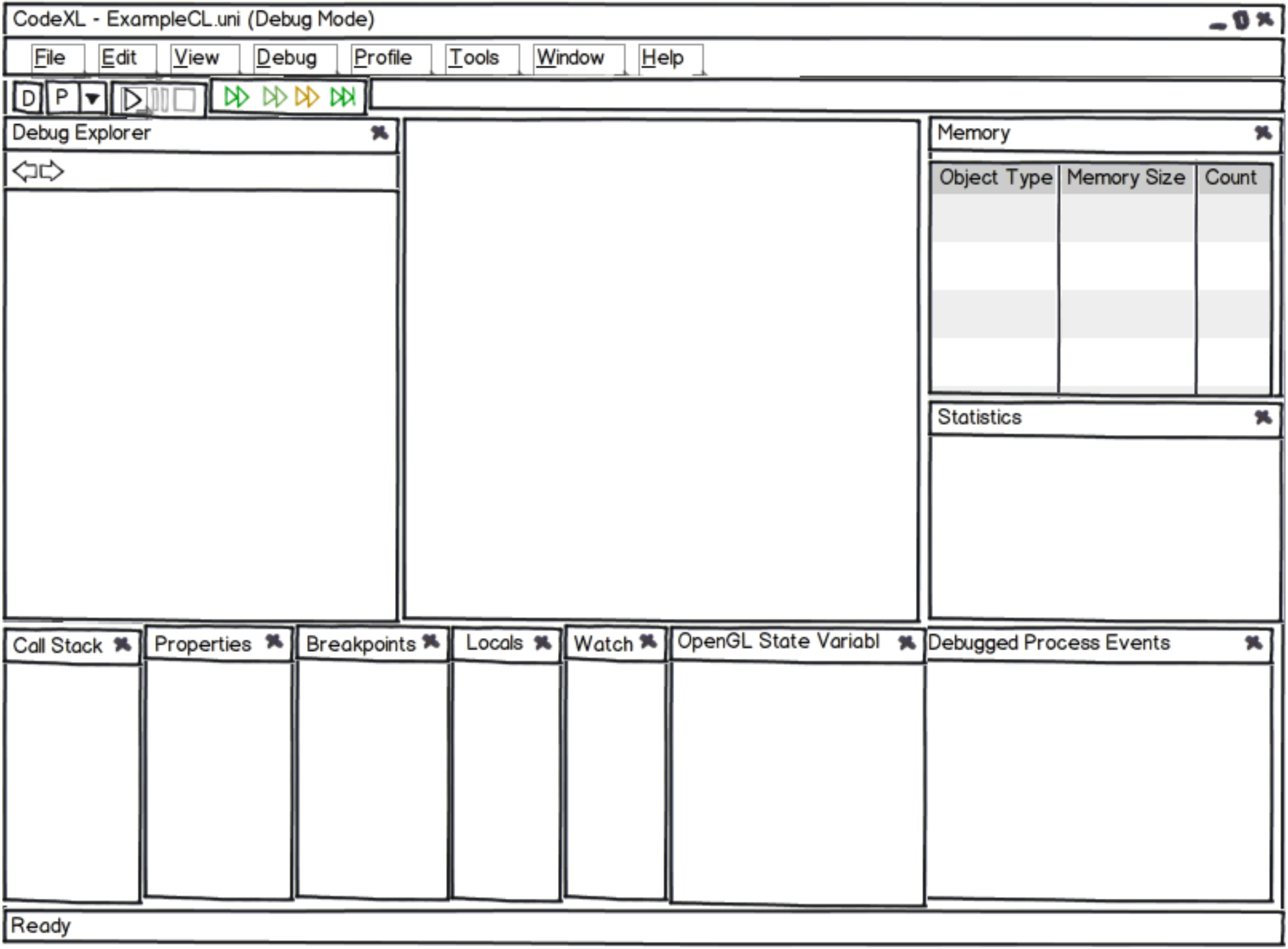

CodeXL - ExampleCL.uni
File
Edit
View
Debug
Profile
Tools
Window
Help
D
P
Properties Window
Debug
Profile
Toolbars
Show Line Numbers
Reset GUI Layout
Session List
Ready

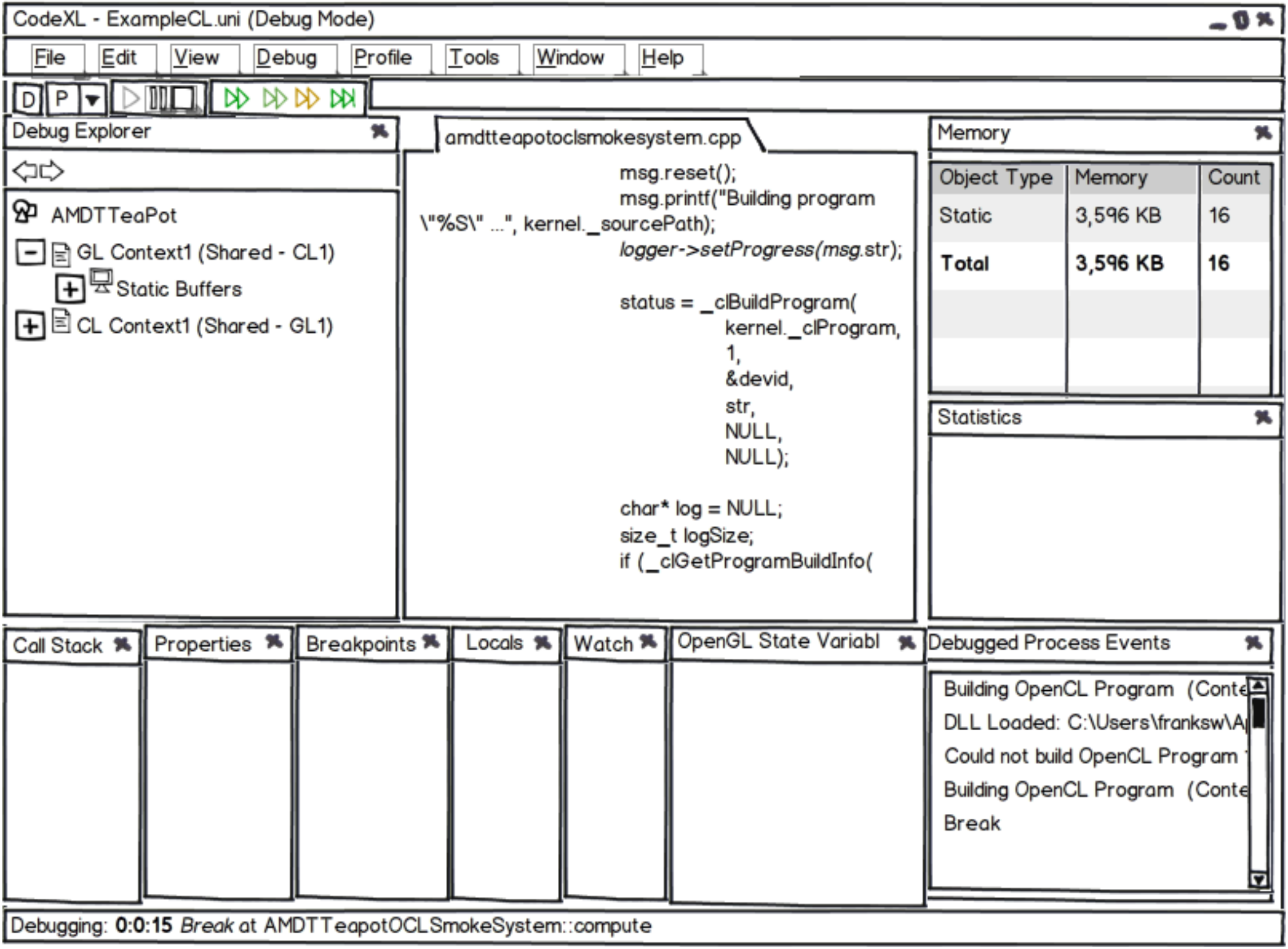

CodeXL - ExampleCL.uni
File
Edit
View
Debug
Profile
Tools
Window
Help
D
P
Images
System Information...
Options...
Ready

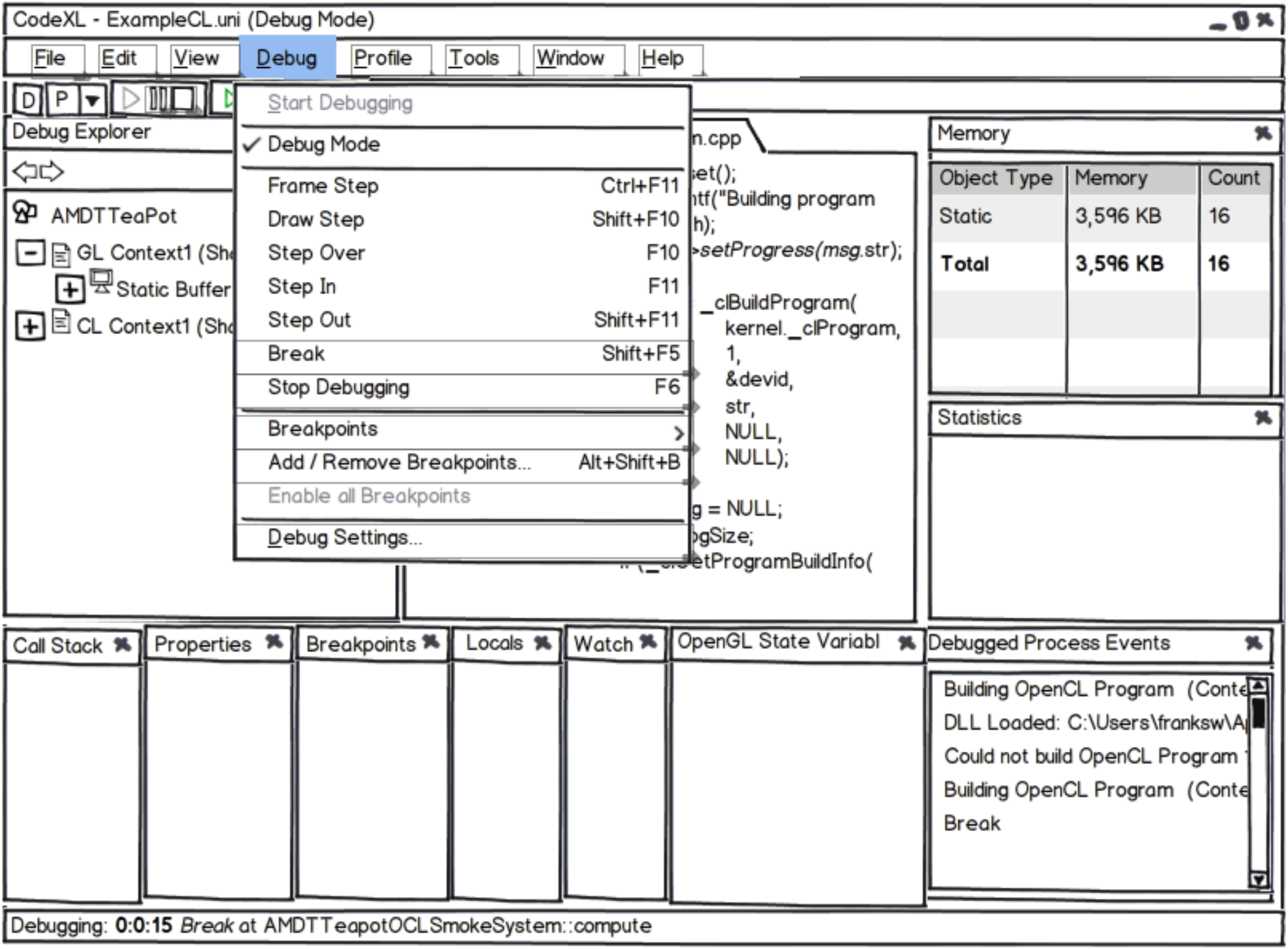

CodeXL - ExampleCL.uni
File
Edit
View
Debug
Profile
Tools
Window
Help
D
P
Images
System Information...
Options...
Select Tool
Zoom In +
Zoom Out -
Pan Tool
Enable the Red Channel
Enable the Green Channel
Enable the Blue Channel
Enable the Alpha Channel
Enable Grayscale Mode
Enable Color Invert Mode
Original Size (100%)
Best Fit
Rotate Left Ctrl+L
Rotate Right Ctrl+R
Ready

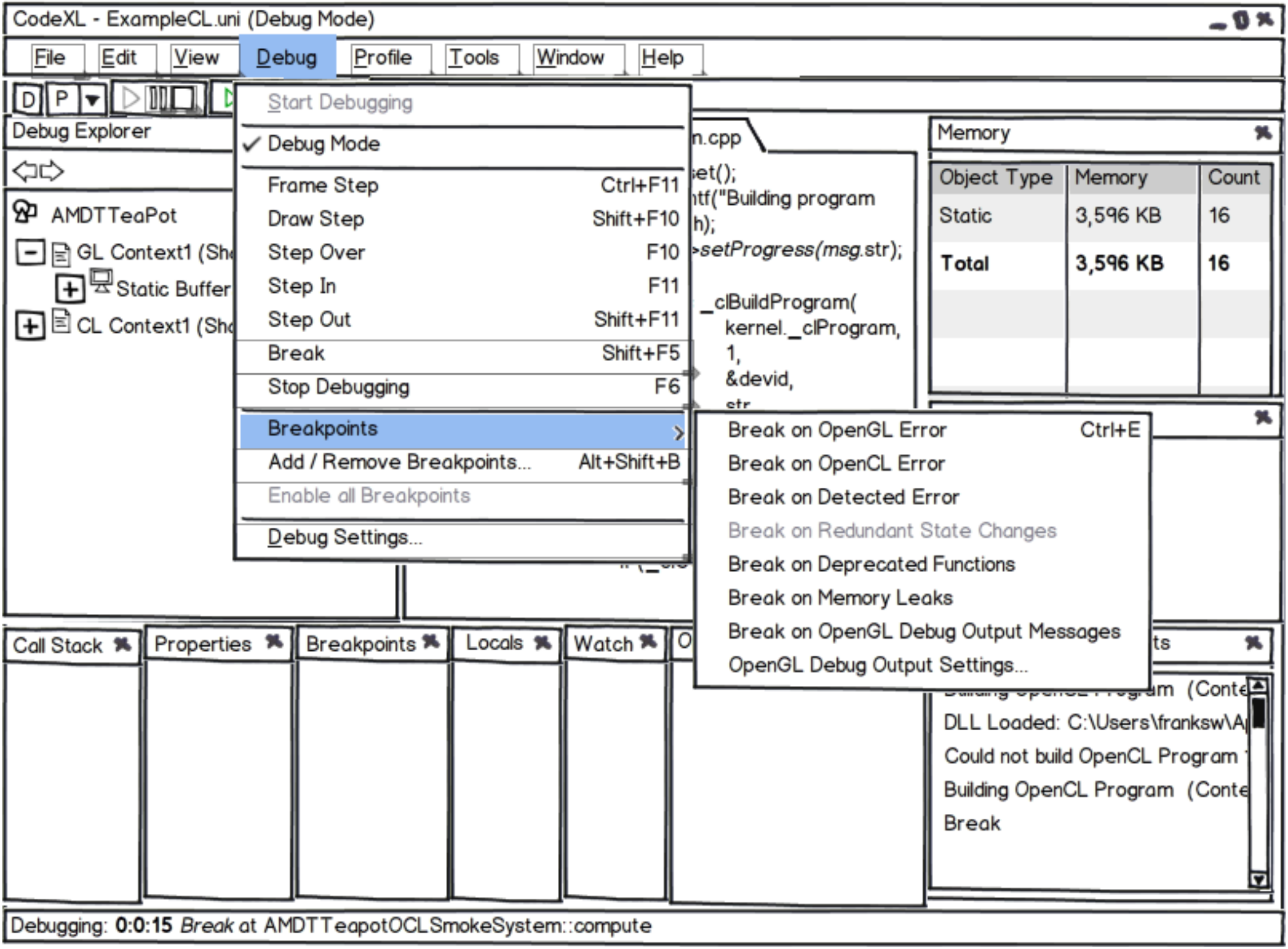

CodeXL - ExampleCL.uni
File
Edit
View
Debug
Profile
Tools
Window
Help
D
P
Properties Window
Debug
Profile
Toolbars
Show Line Numbers
Reset GUI Layout
Views Toolbar
Debug Toolbar
Images and Buffers Toolbar
Kernel Work Items Toolbar
Ready

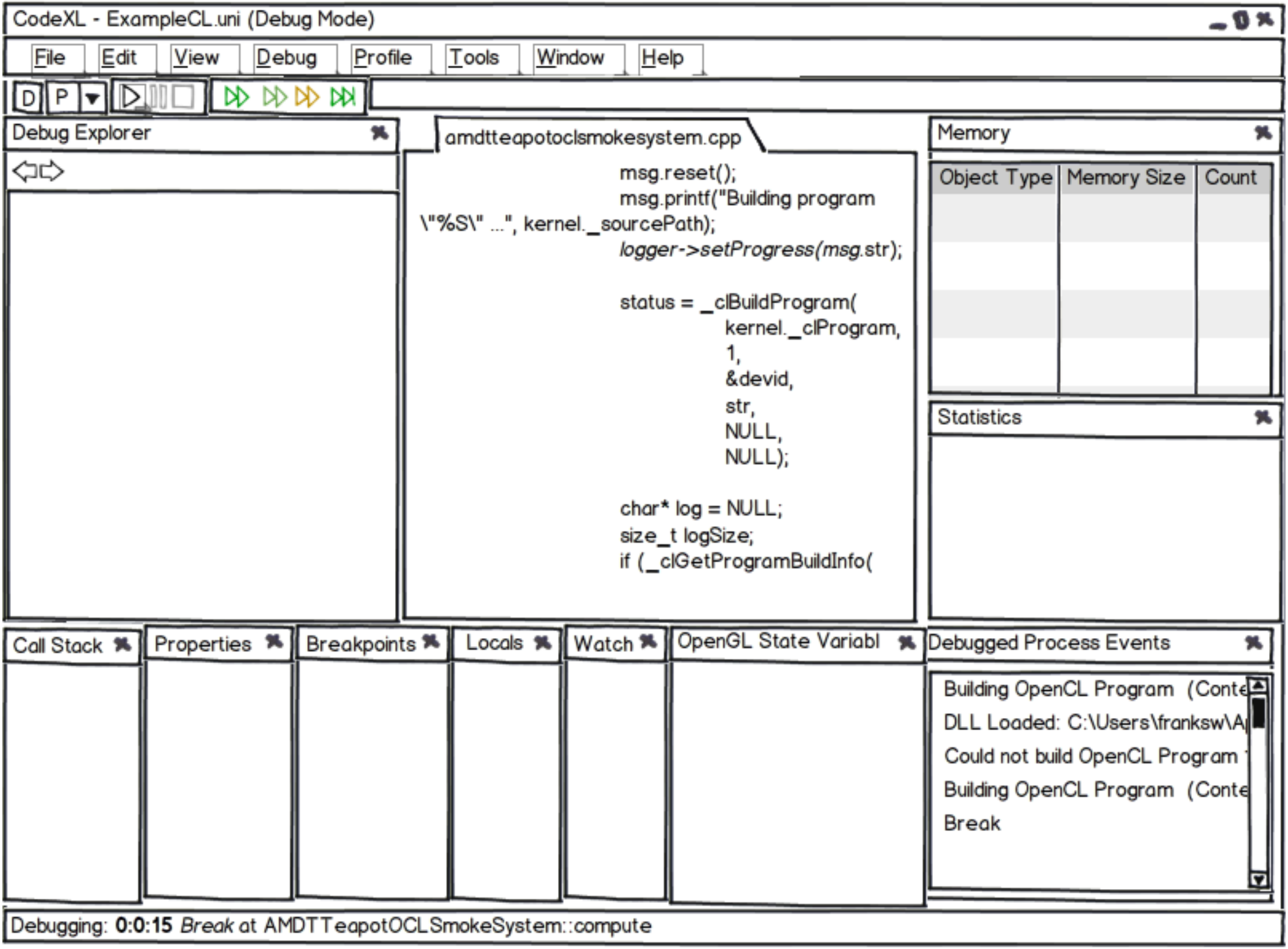

CodeXL - ExampleCL.uni
File
Edit
View
Debug
Profile
Tools
Window
Help
D
P
Start Debugging
Debug Mode
Frame Step Ctrl+F11
Draw Step Shift+F10
Step Over F10
Step In F11
Step Out Shift+F11
Break Shift+F5
Stop Debugging F6
Breakpoints
Add / Remove Breakpoints... Alt+Shift+B
Enable all Breakpoints
Debug Settings...
Ready


CodeXL - ExampleCL.uni (Debug Mode)
File
Edit
View
Debug
Profile
Tools
Window
Help
D
P
Debug Explorer
Memory
Object Type
Memory Size
Count
Statistics
Call Stack
Properties
Breakpoints
Locals
Watch
OpenGL State Variabl
Debugged Process Events
Ready


CodeXL - ExampleCL.uni (Debug Mode)
File
Edit
View
Debug
Profile
Tools
Window
Help
Debug Explorer
AMDTTeaPot
GL Context1 (Shared - CL1)
Static Buffers
CL Context1 (Shared - GL1)
amdtteapotoclsmokesystem.cpp
msg.reset();
msg.printf("Building program \"%S\" ...", kernel._sourcePath);
logger->setProgress(msg.str);
status = _clBuildProgram(
kernel._clProgram,
1,
&devid,
str,
NULL,
NULL);
char* log = NULL;
size_t logSize;
if (_clGetProgramBuildInfo(
Memory
Object Type
Memory
Count
Static
3,596 KB
16
Total
3,596 KB
16
Statistics
Call Stack
Properties
Breakpoints
Locals
Watch
OpenGL State Variabl
Debugged Process Events
Building OpenCL Program (Conte
DLL Loaded: C:\Users\franksw\A
Could not build OpenCL Program
Building OpenCL Program (Conte
Break
Debugging: 0:0:15 Break at AMDTTeapotOCLSmokeSystem::compute


CodeXL - ExampleCL.uni (Debug Mode)
File
Edit
View
Debug
Profile
Tools
Window
Help
Start Debugging
Debug Mode
Frame Step Ctrl+F11
Draw Step Shift+F10
Step Over F10
Step In F11
Step Out Shift+F11
Break Shift+F5
Stop Debugging F6
Breakpoints
Add / Remove Breakpoints... Alt+Shift+B
Enable all Breakpoints
Debug Settings...
Debug Explorer
AMDTTeaPot
GL Context1 (Sh
Static Buffer
CL Context1 (Sh
n.cpp
et();
ntf("Building program
h);
>setProgress(msg.str);
_clBuildProgram(
kernel._clProgram,
1,
&devid,
str,
NULL,
NULL);
g = NULL;
pgSize;
etProgramBuildInfo(
Memory
Object Type
Memory
Count
Static
3,596 KB
16
Total
3,596 KB
16
Statistics
Call Stack
Properties
Breakpoints
Locals
Watch
OpenGL State Variabl
Debugged Process Events
Building OpenCL Program (Conte
DLL Loaded: C:\Users\franksw\A
Could not build OpenCL Program
Building OpenCL Program (Conte
Break
Debugging: 0:0:15 Break at AMDTTeapotOCLSmokeSystem::compute


CodeXL - ExampleCL.uni (Debug Mode)
File
Edit
View
Debug
Profile
Tools
Window
Help
Start Debugging
Debug Mode
Frame Step Ctrl+F11
Draw Step Shift+F10
Step Over F10
Step In F11
Step Out Shift+F11
Break Shift+F5
Stop Debugging F6
Breakpoints
Add / Remove Breakpoints... Alt+Shift+B
Enable all Breakpoints
Debug Settings...
Break on OpenGL Error Ctrl+E
Break on OpenCL Error
Break on Detected Error
Break on Redundant State Changes
Break on Deprecated Functions
Break on Memory Leaks
Break on OpenGL Debug Output Messages
OpenGL Debug Output Settings...
Debug Explorer
AMDTTeaPot
GL Context1 (Sh
Static Buffer
CL Context1 (Sh
Memory
Object Type
Memory
Count
Static
3,596 KB
16
Total
3,596 KB
16
Call Stack
Properties
Breakpoints
Locals
Watch
DLL Loaded: C:\Users\franksw\A
Could not build OpenCL Program
Building OpenCL Program (Conte
Break
Debugging: 0:0:15 Break at AMDTTeapotOCLSmokeSystem::compute


CodeXL - ExampleCL.uni (Debug Mode)
File
Edit
View
Debug
Profile
Tools
Window
Help
D
P
Debug Explorer
amdtteapotoclsmokesystem.cpp
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msg.printf("Building program \"%S\" ...", kernel._sourcePath);
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str,
NULL,
NULL);
char* log = NULL;
size_t logSize;
if (_clGetProgramBuildInfo(
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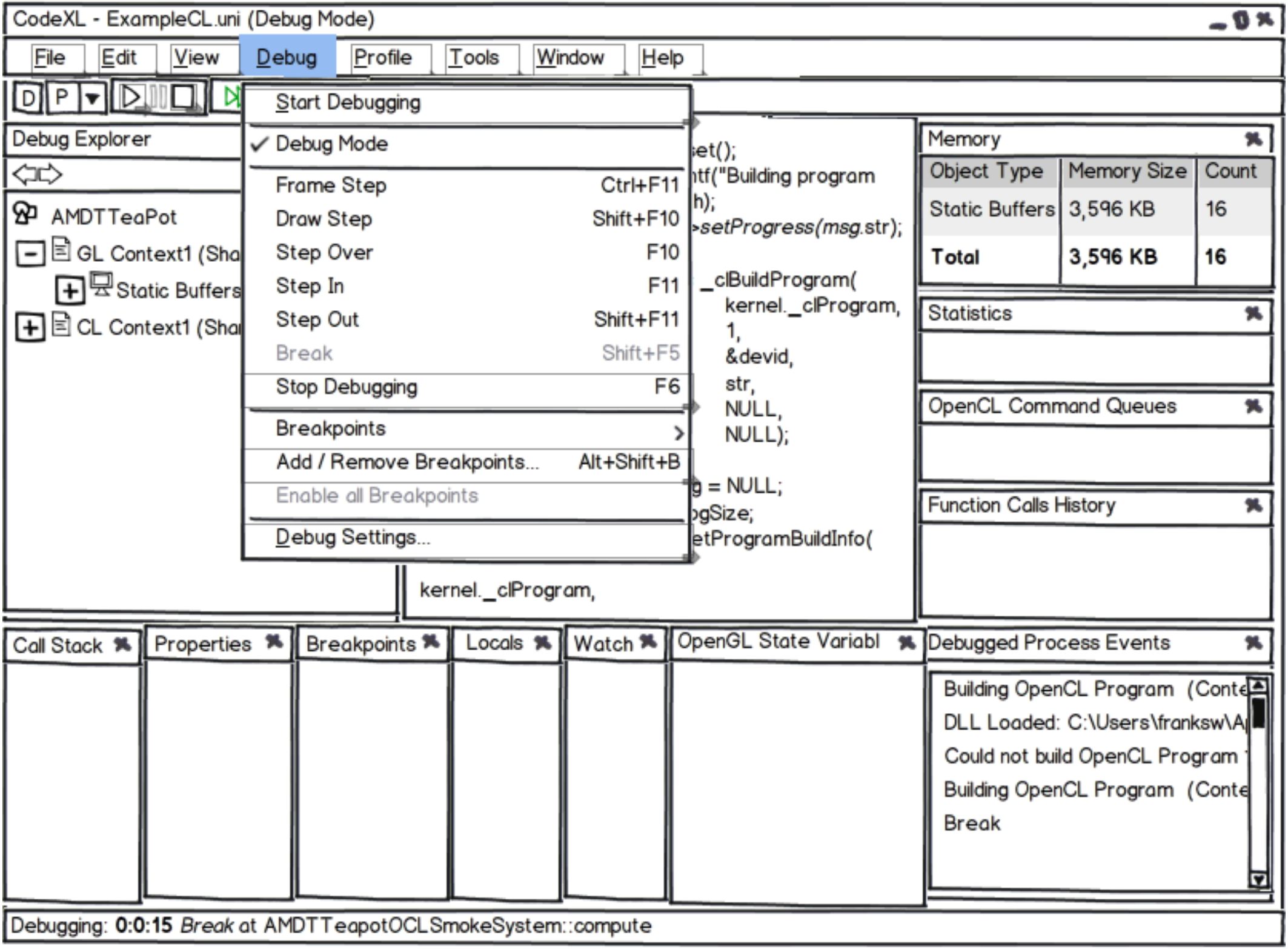
Object Type
Memory Size
Count
Statistics
Call Stack
Properties
Breakpoints
Locals
Watch
OpenGL State Variabl
Debugged Process Events
Building OpenCL Program (Conte
DLL Loaded: C:\Users\franksw\A
Could not build OpenCL Program
Building OpenCL Program (Conte
Break
Debugging: 0:0:15 Break at AMDTTeapotOCLSmokeSystem::compute


CodeXL - ExampleCL.uni (Debug Mode)
File
Edit
View
Debug
Profile
Tools
Window
Help
Start Debugging
Debug Mode
Frame Step Ctrl+F11
Draw Step Shift+F10
Step Over F10
Step In F11
Step Out Shift+F11
Break Shift+F5
Stop Debugging F6
Breakpoints
Add / Remove Breakpoints... Alt+Shift+B
Enable all Breakpoints
Debug Settings...
Debug Explorer
AMDTTeaPot
GL Context1 (Sha
Static Buffers
CL Context1 (Shar
Memory
Object Type
Memory Size
Count
Static Buffers
3,596 KB
16
Total
3,596 KB
16
Statistics
OpenCL Command Queues
Function Calls History
kernel._clProgram,
Call Stack
Properties
Breakpoints
Locals
Watch
OpenGL State Variabl
Debugged Process Events
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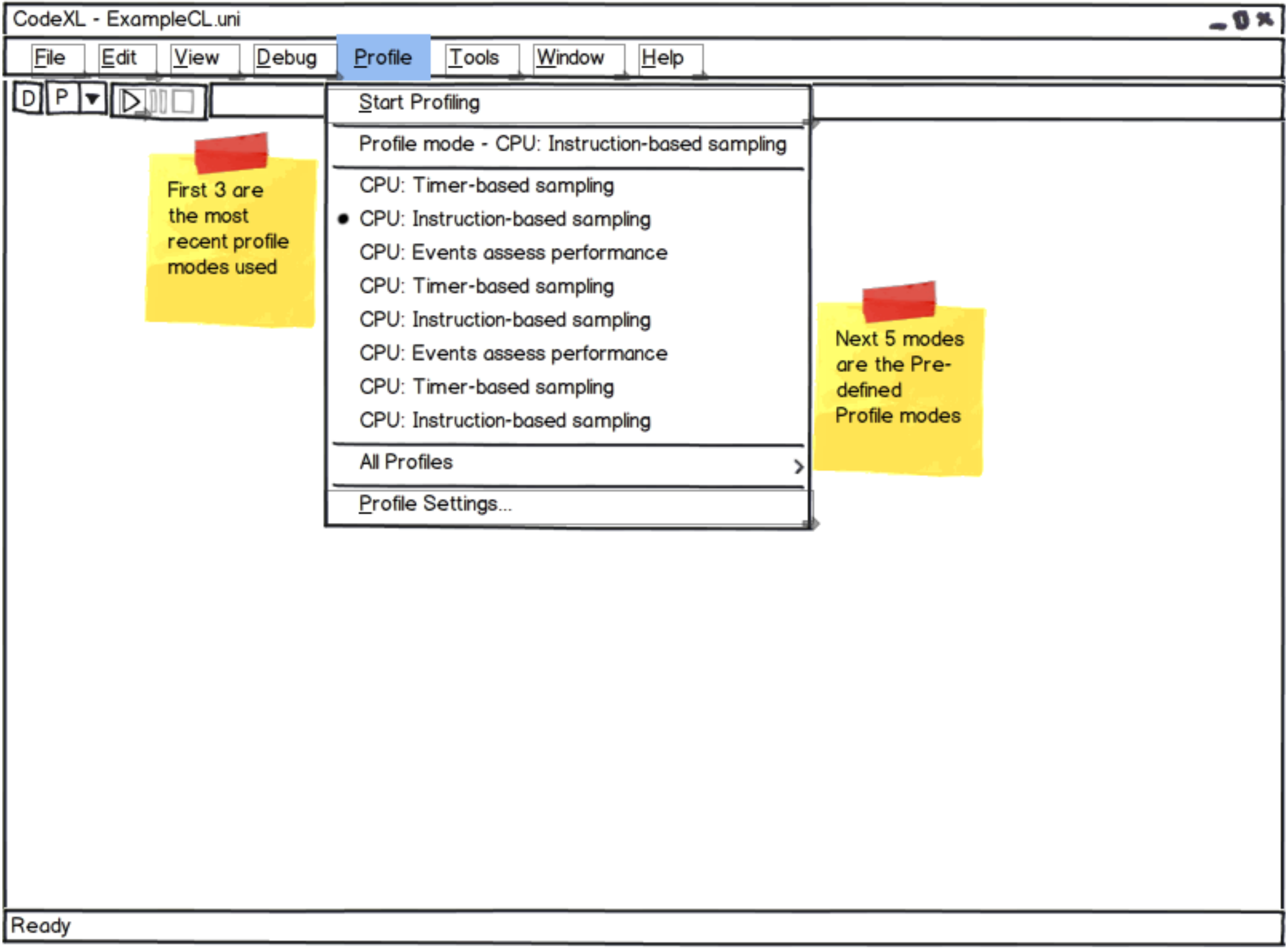
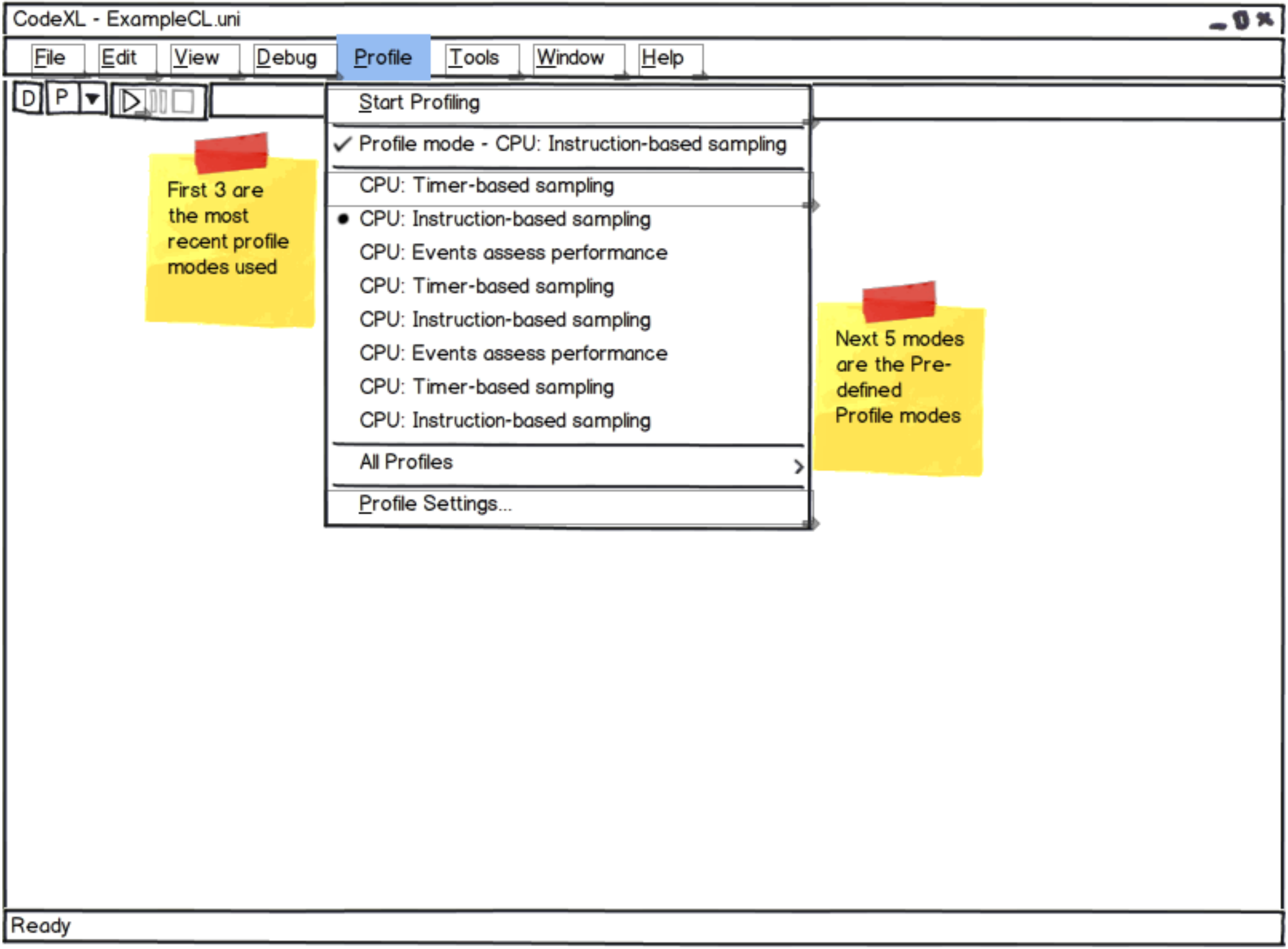
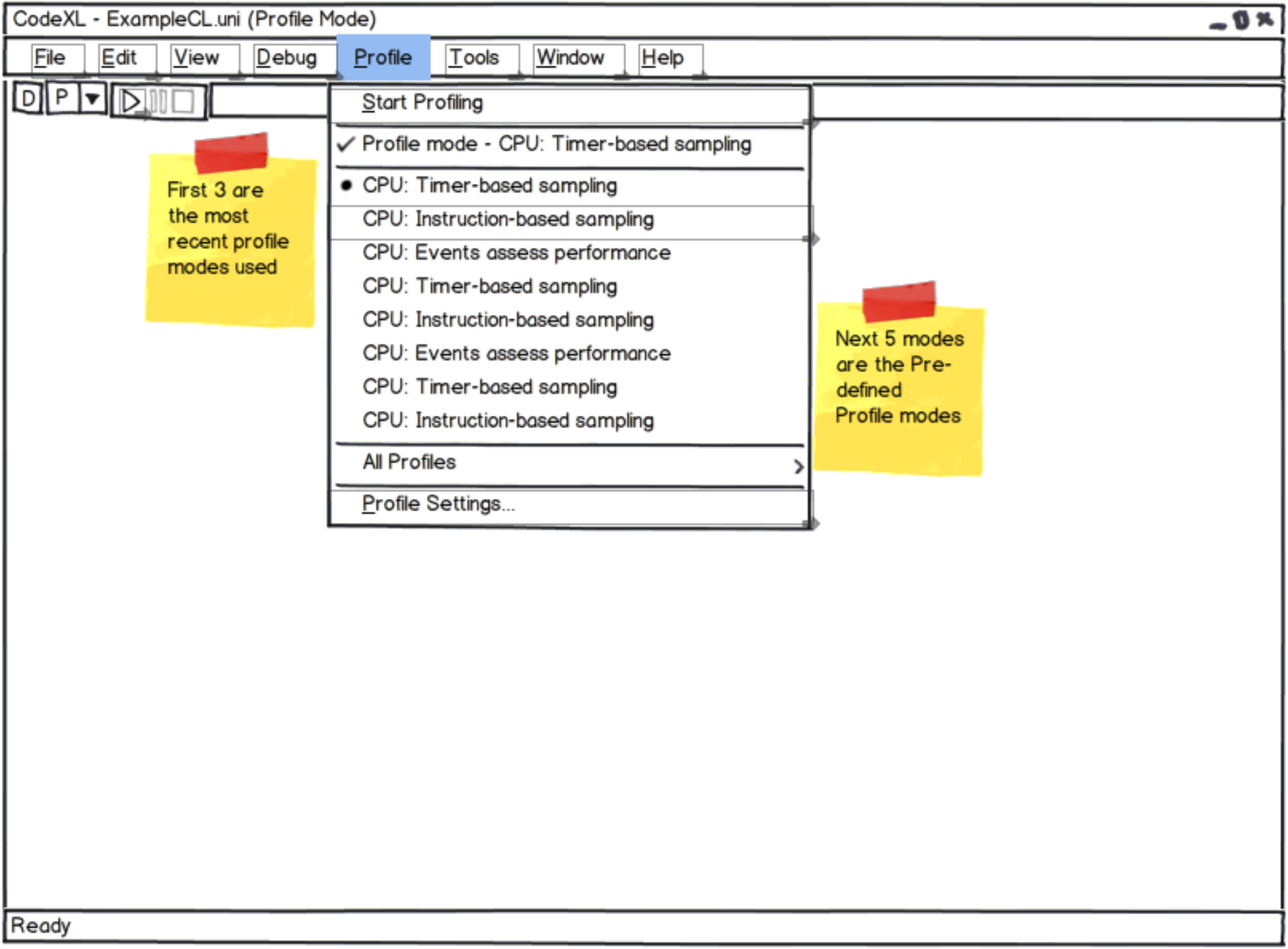
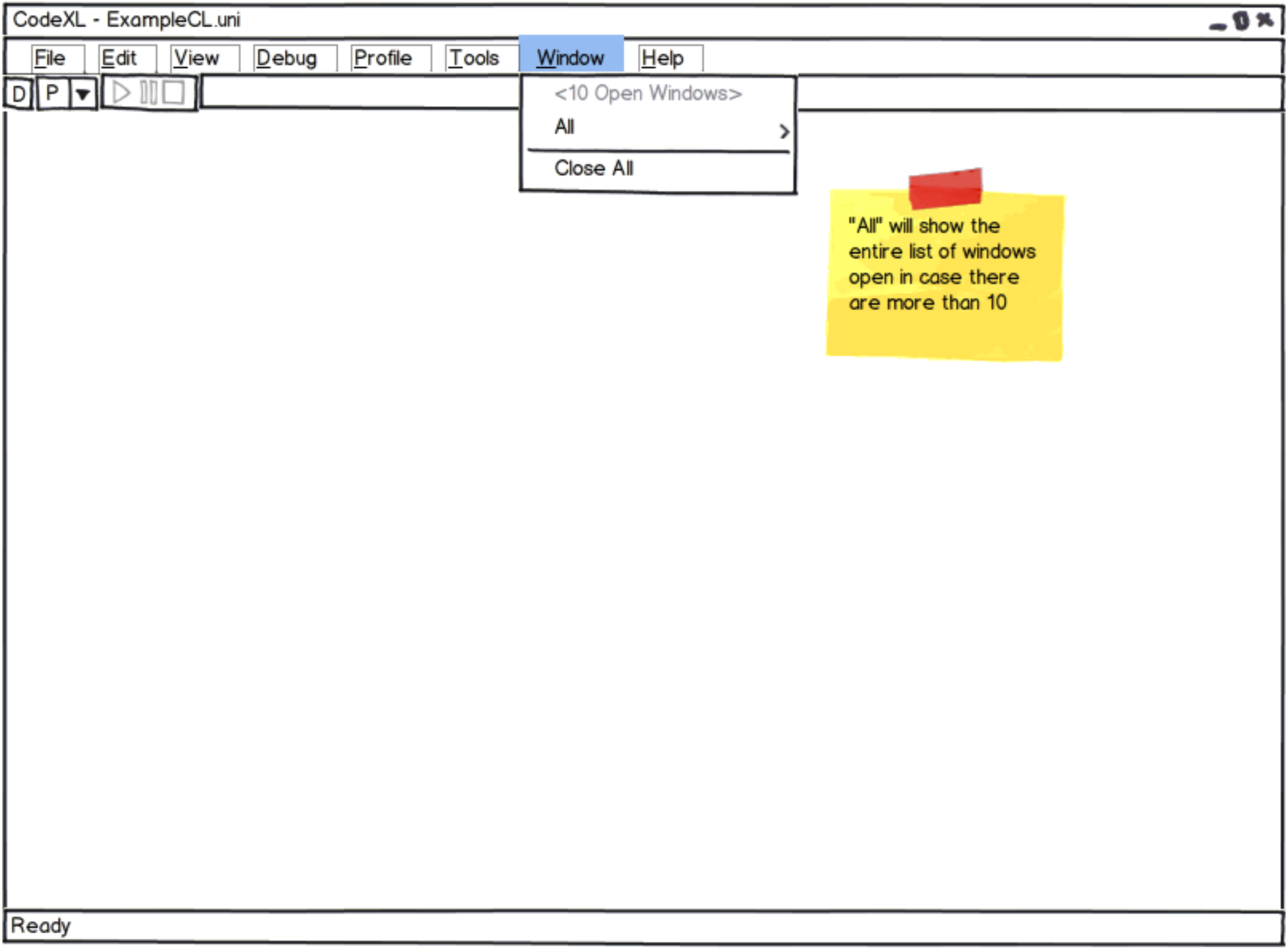
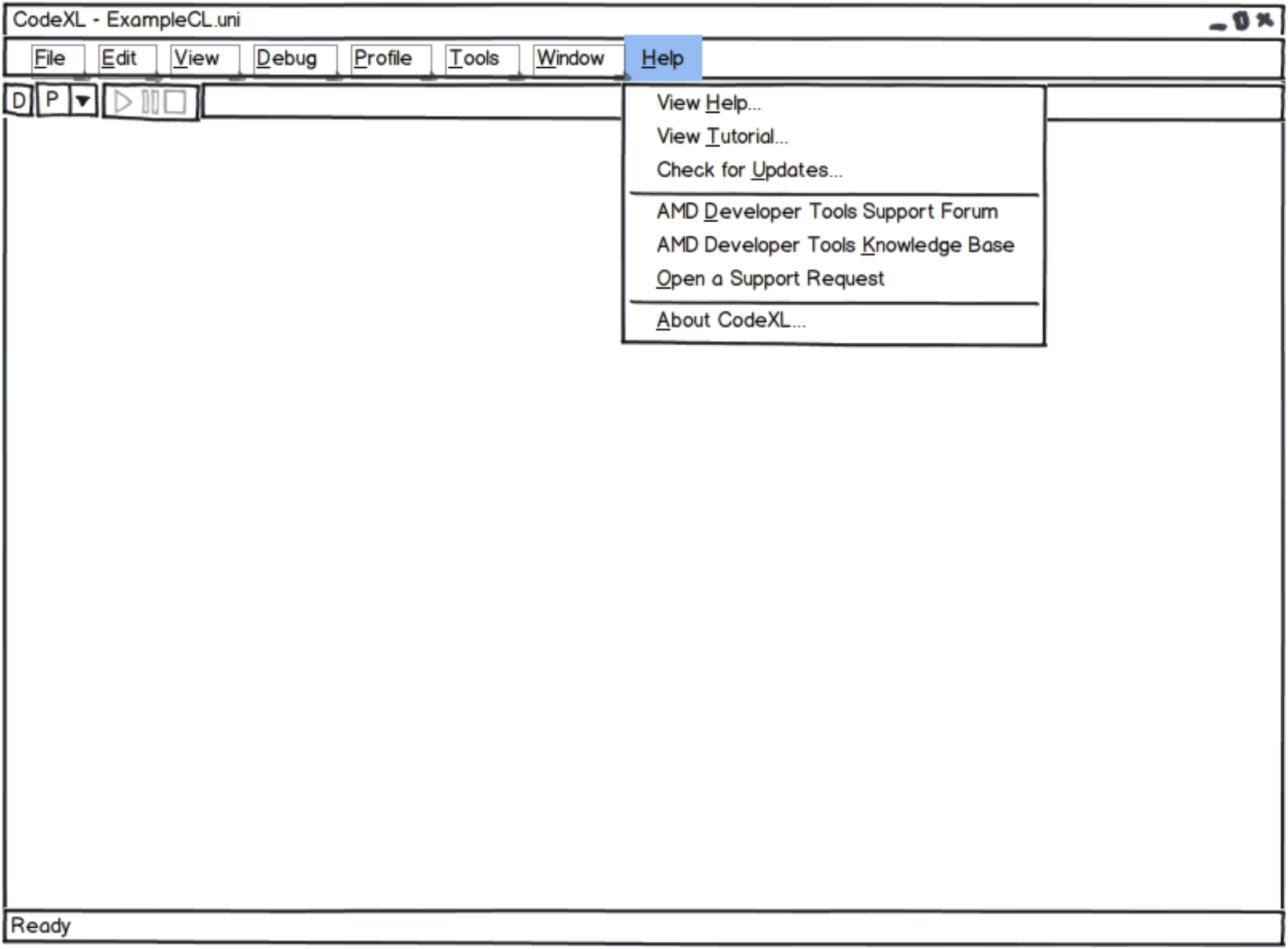
Debugging: 0:0:15 Break at AMDTTeapotOCLSmokeSystem::compute


CodeXL - ExampleCL.uni
File
Edit
View
Debug
Profile
Tools
Window
Help
D
P
Start Profiling
Profile mode - CPU: Instruction-based sampling
CPU: Timer-based sampling
CPU: Instruction-based sampling
CPU: Events assess performance
CPU: Timer-based sampling
CPU: Instruction-based sampling
CPU: Events assess performance
CPU: Timer-based sampling
CPU: Instruction-based sampling
All Profiles
Profile Settings...
First 3 are the most recent profile modes used
Next 5 modes are the Pre-defined Profile modes
Ready


CodeXL - ExampleCL.uni
File
Edit
View
Debug
Profile
Tools
Window
Help
D
P
Start Profiling
Profile mode - CPU: Instruction-based sampling
CPU: Timer-based sampling
CPU: Instruction-based sampling
CPU: Events assess performance
CPU: Timer-based sampling
CPU: Instruction-based sampling
CPU: Events assess performance
CPU: Timer-based sampling
CPU: Instruction-based sampling
All Profiles
Profile Settings...
First 3 are the most recent profile modes used
Next 5 modes are the Pre-defined Profile modes
Ready


CodeXL - ExampleCL.uni (Profile Mode)
File
Edit
View
Debug
Profile
Tools
Window
Help
D
P
Start Profiling
Profile mode - CPU: Timer-based sampling
CPU: Timer-based sampling
CPU: Instruction-based sampling
CPU: Events assess performance
CPU: Timer-based sampling
CPU: Instruction-based sampling
CPU: Events assess performance
CPU: Timer-based sampling
CPU: Instruction-based sampling
All Profiles
Profile Settings...
First 3 are the most recent profile modes used
Next 5 modes are the Pre-defined Profile modes
Ready


CodeXL - ExampleCL.uni
File
Edit
View
Debug
Profile
Tools
Window
Help
D
P
<10 Open Windows>
All
Close All
"All" will show the entire list of windows open in case there are more than 10
Ready


CodeXL - ExampleCL.uni
File
Edit
View
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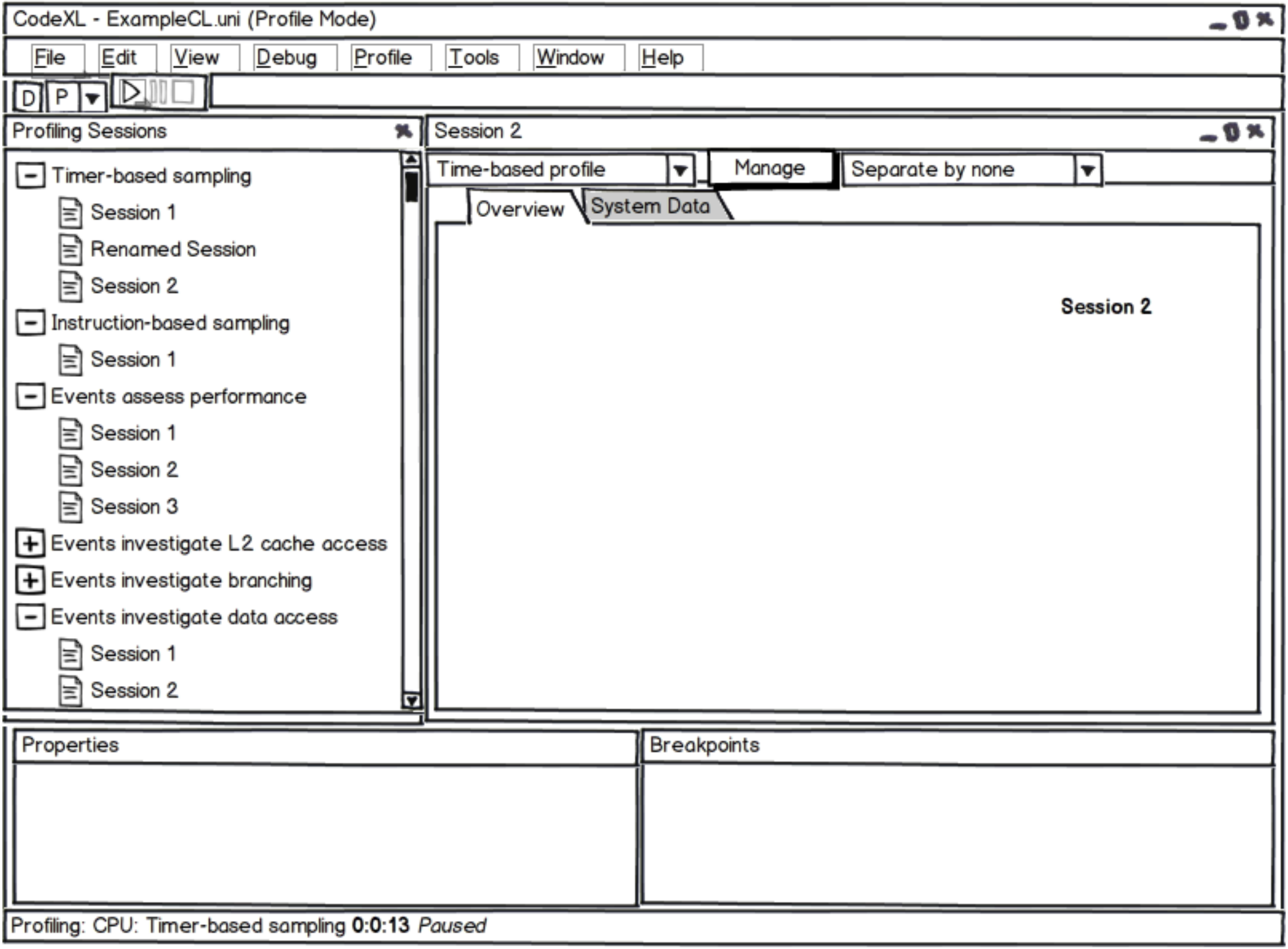
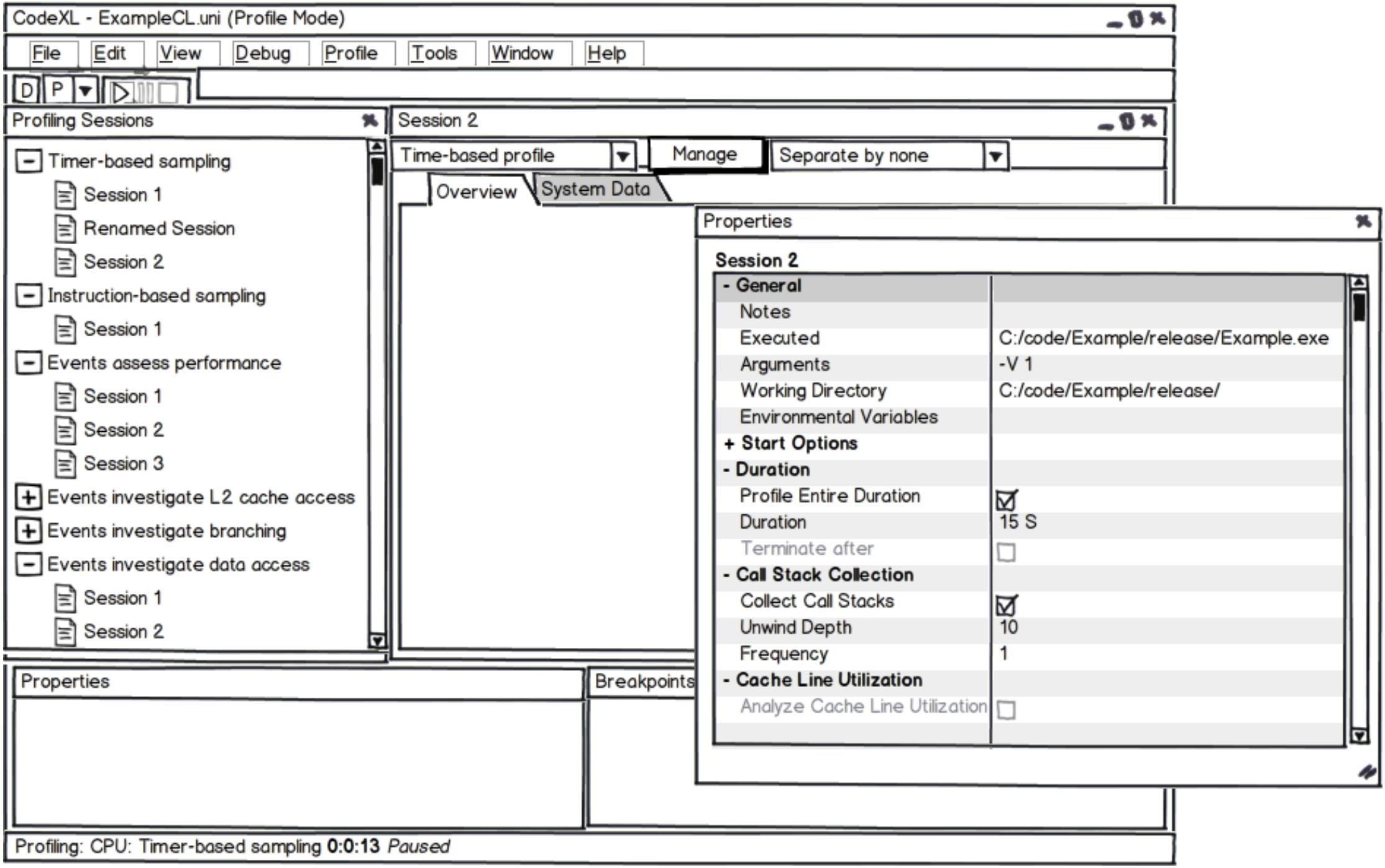
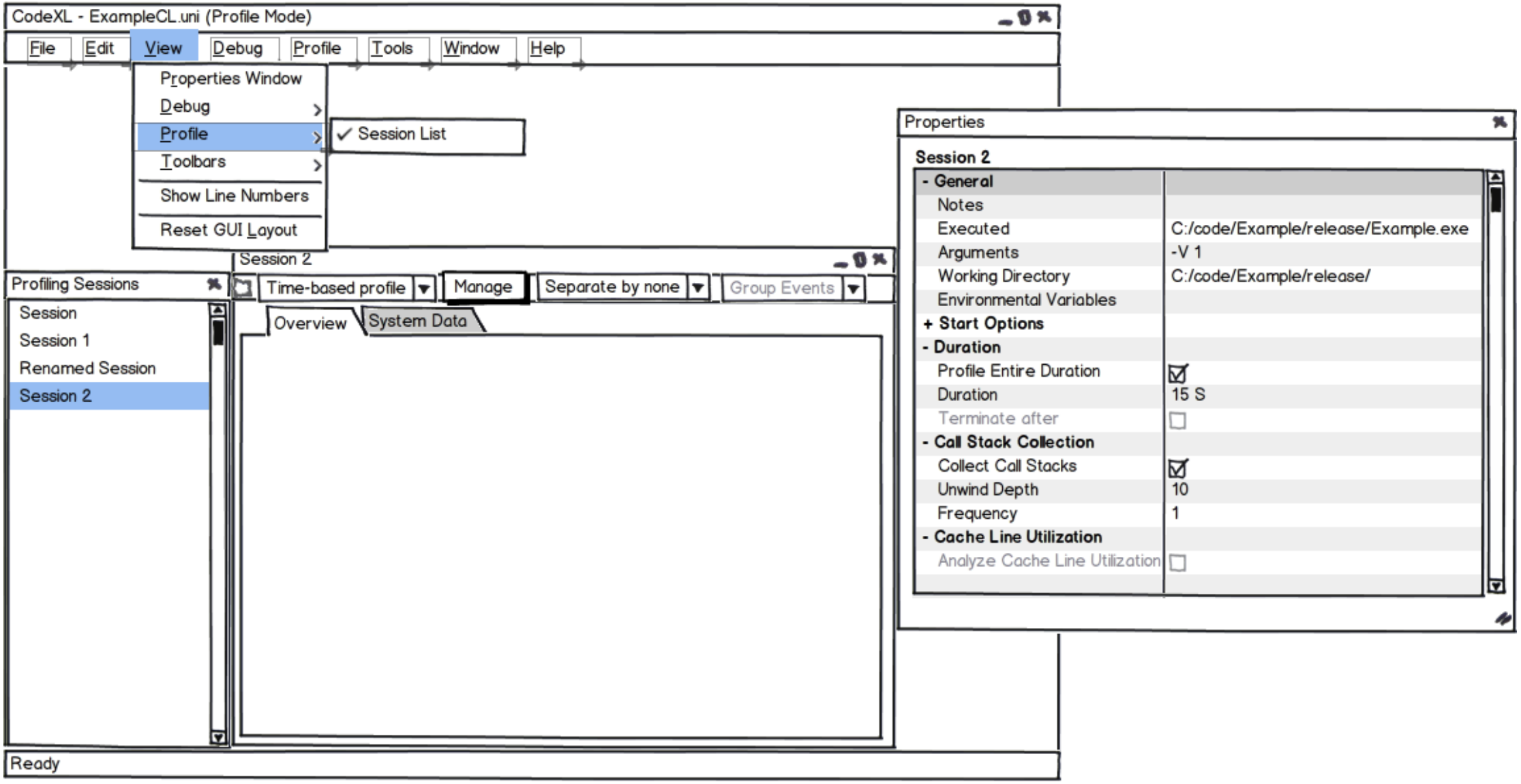
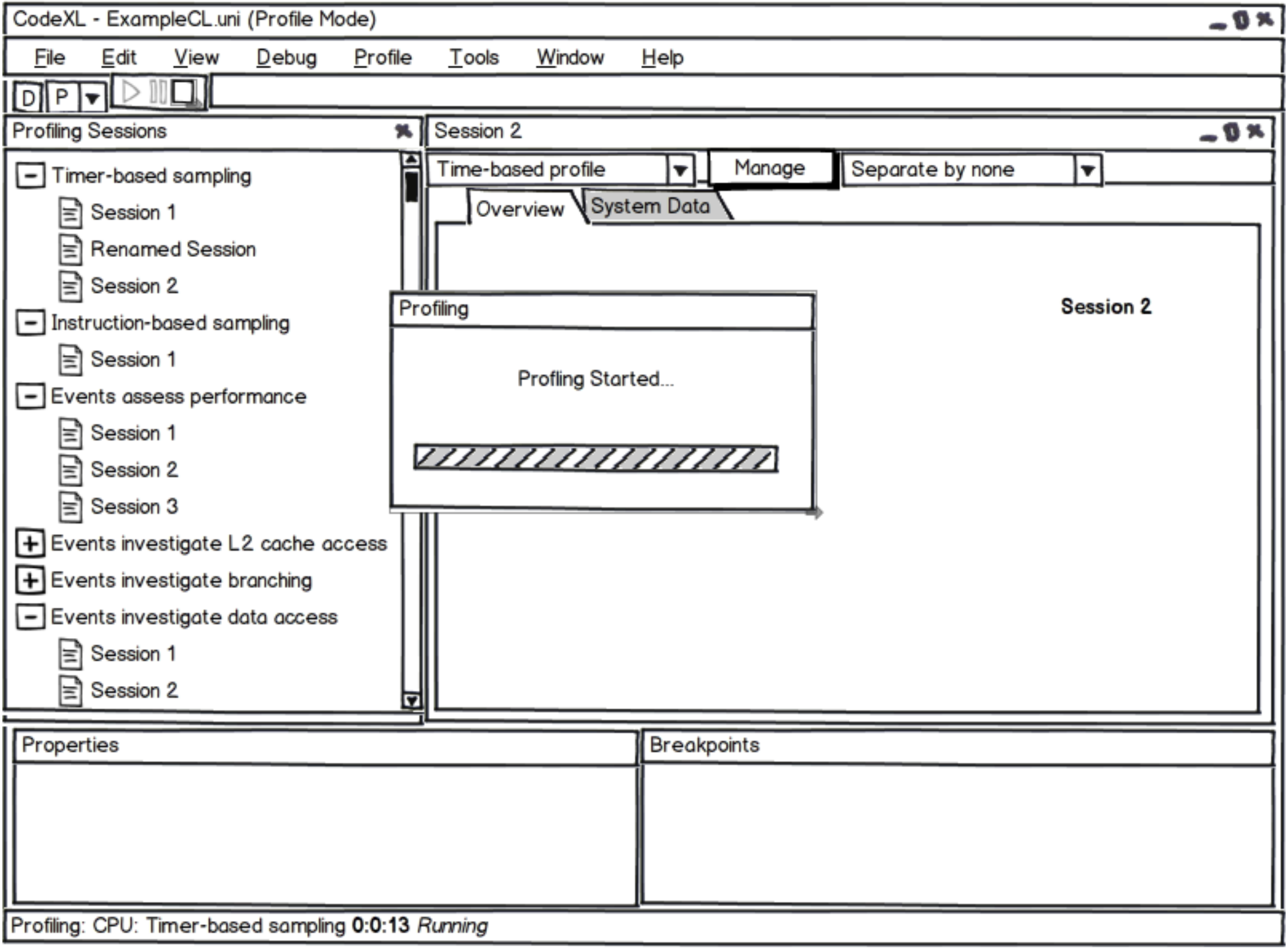
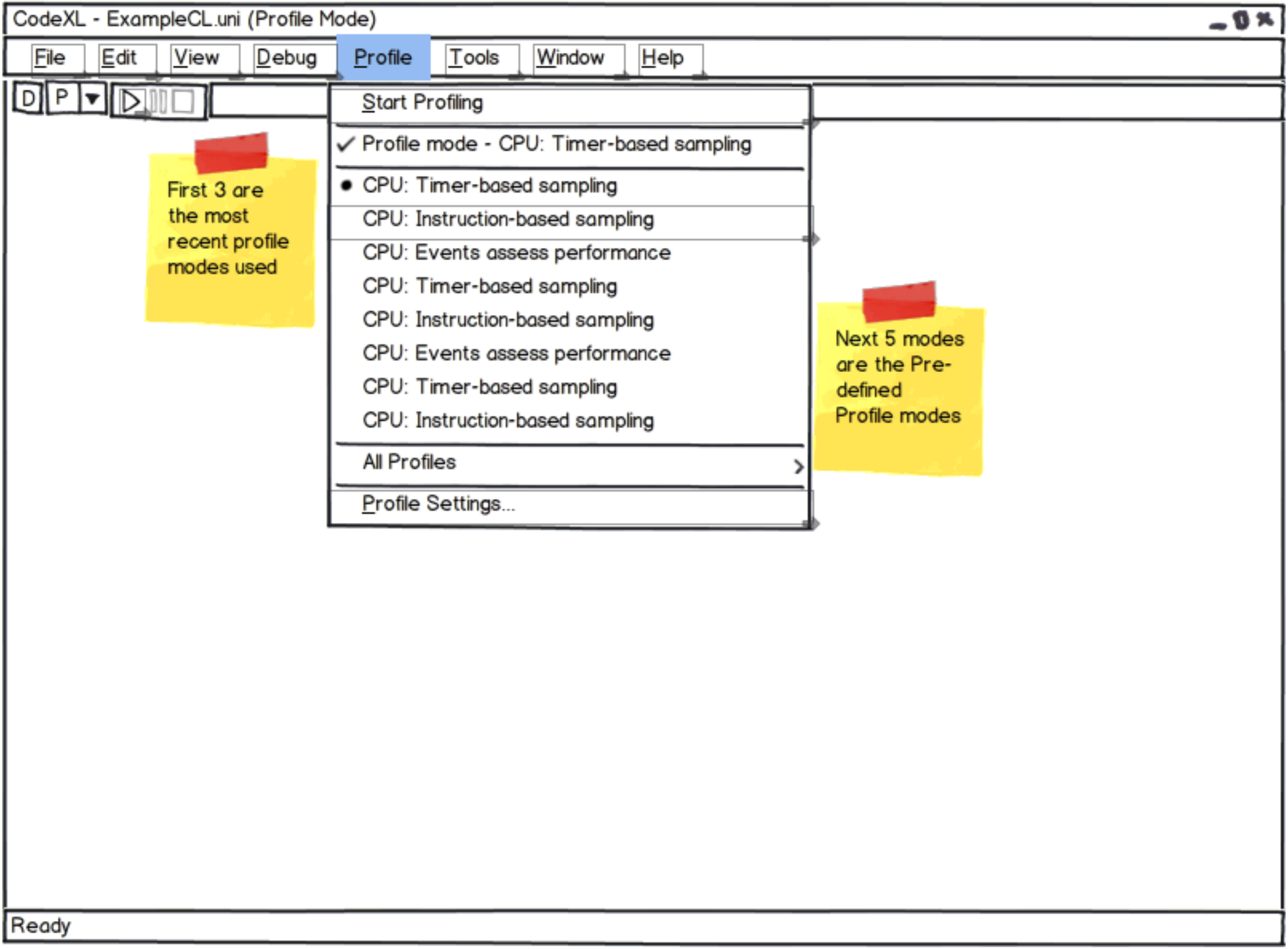
Profile
Tools
Window
Help
D
P
View Help...
View Tutorial...
Check for Updates...
AMD Developer Tools Support Forum
AMD Developer Tools Knowledge Base
Open a Support Request
About CodeXL...
Ready

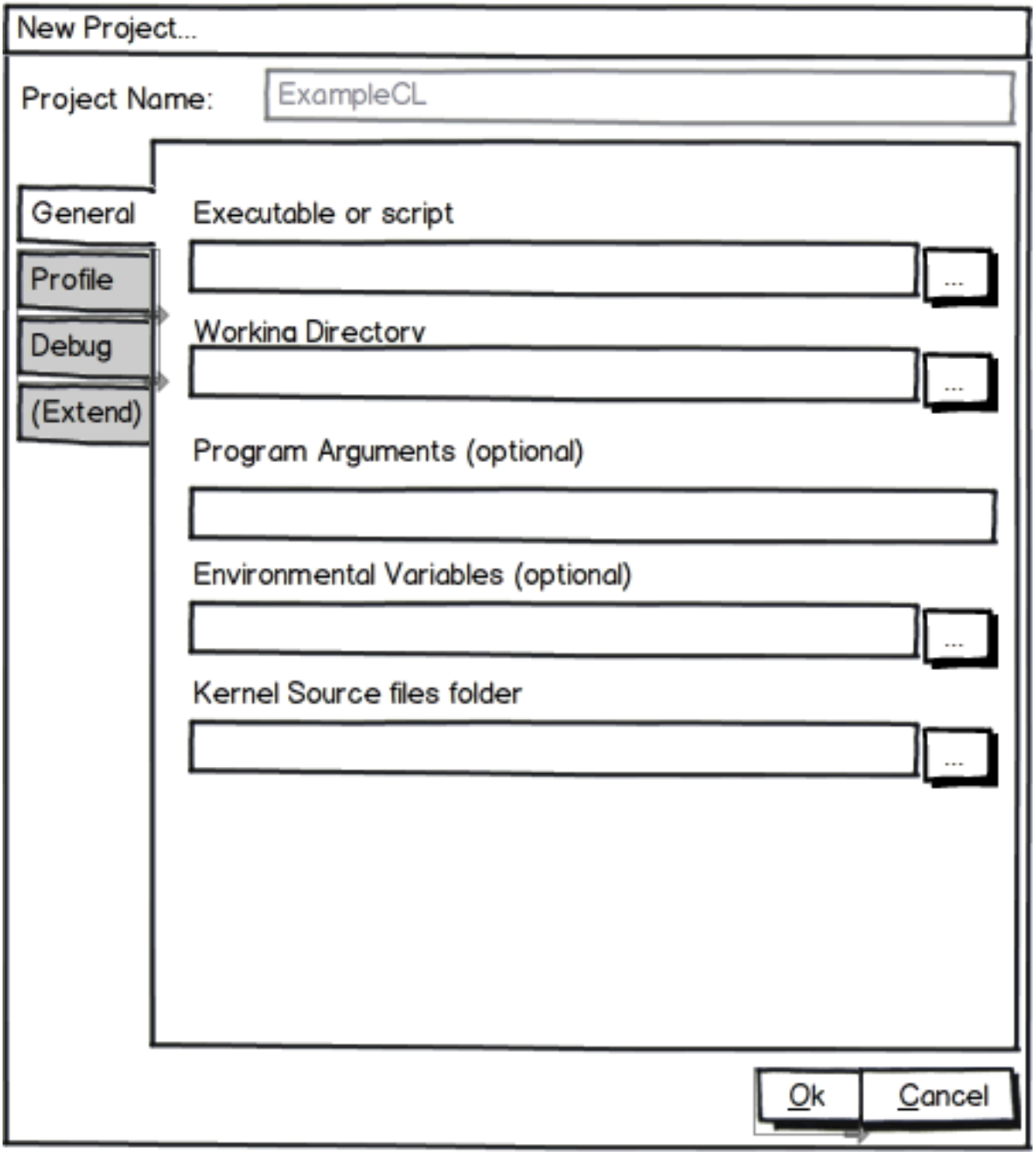

CodeXL - ExampleCL.uni (Profile Mode)
File
Edit
View
Debug
Profile
Tools
Window
Help
D
P
Profiling Sessions
Timer-based sampling
Session 1
Renamed Session
Session 2
Instruction-based sampling
Session 1
Events assess performance
Session 1
Session 2
Session 3
Events investigate L2 cache access
Events investigate branching
Events investigate data access
Session 1
Session 2
Session 2
Time-based profile
Manage
Separate by none
Overview
System Data
Session 2
Properties
Breakpoints
Profiling: CPU: Timer-based sampling 0:0:13 Paused

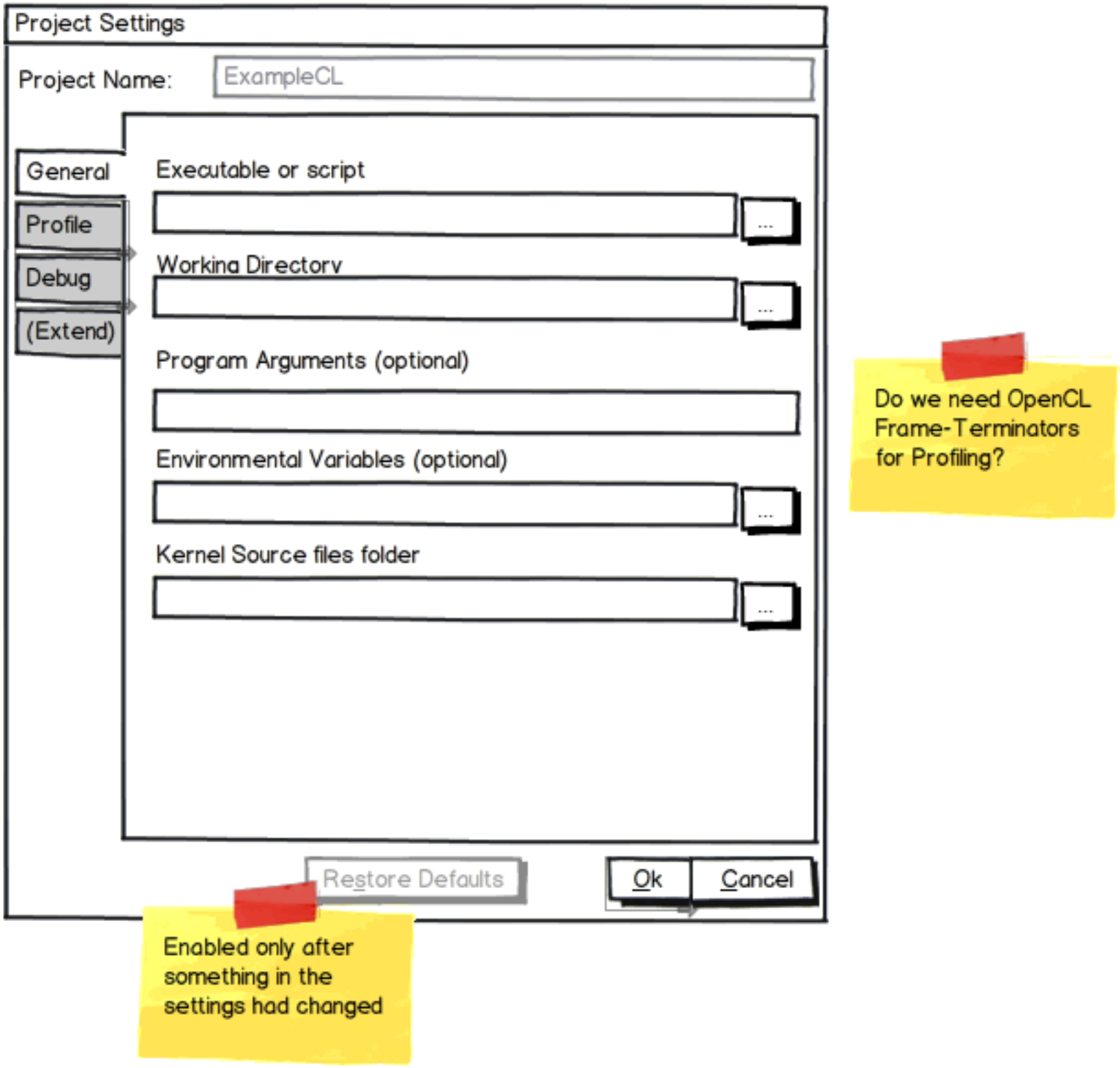

CodeXL - ExampleCL.uni (Profile Mode)
File
Edit
View
Debug
Profile
Tools
Window
Help
D
P
Profiling Sessions
Timer-based sampling
Session 1
Renamed Session
Session 2
Instruction-based sampling
Session 1
Events assess performance
Session 1
Session 2
Session 3
Events investigate L2 cache access
Events investigate branching
Events investigate data access
Session 1
Session 2
Session 2
Time-based profile
Manage
Separate by none
Overview
System Data
Properties
Session 2
- General
Notes
Executed
C:/code/Example/release/Example.exe
Arguments
-V 1
Working Directory
C:/code/Example/release/
Environmental Variables
+ Start Options
- Duration
Profile Entire Duration
Duration
15 S
Terminate after
- Call Stack Collection
Collect Call Stacks
Unwind Depth
10
Frequency
1
- Cache Line Utilization
Analyze Cache Line Utilization
Properties
Breakpoints
Profiling: CPU: Timer-based sampling 0:0:13 Paused

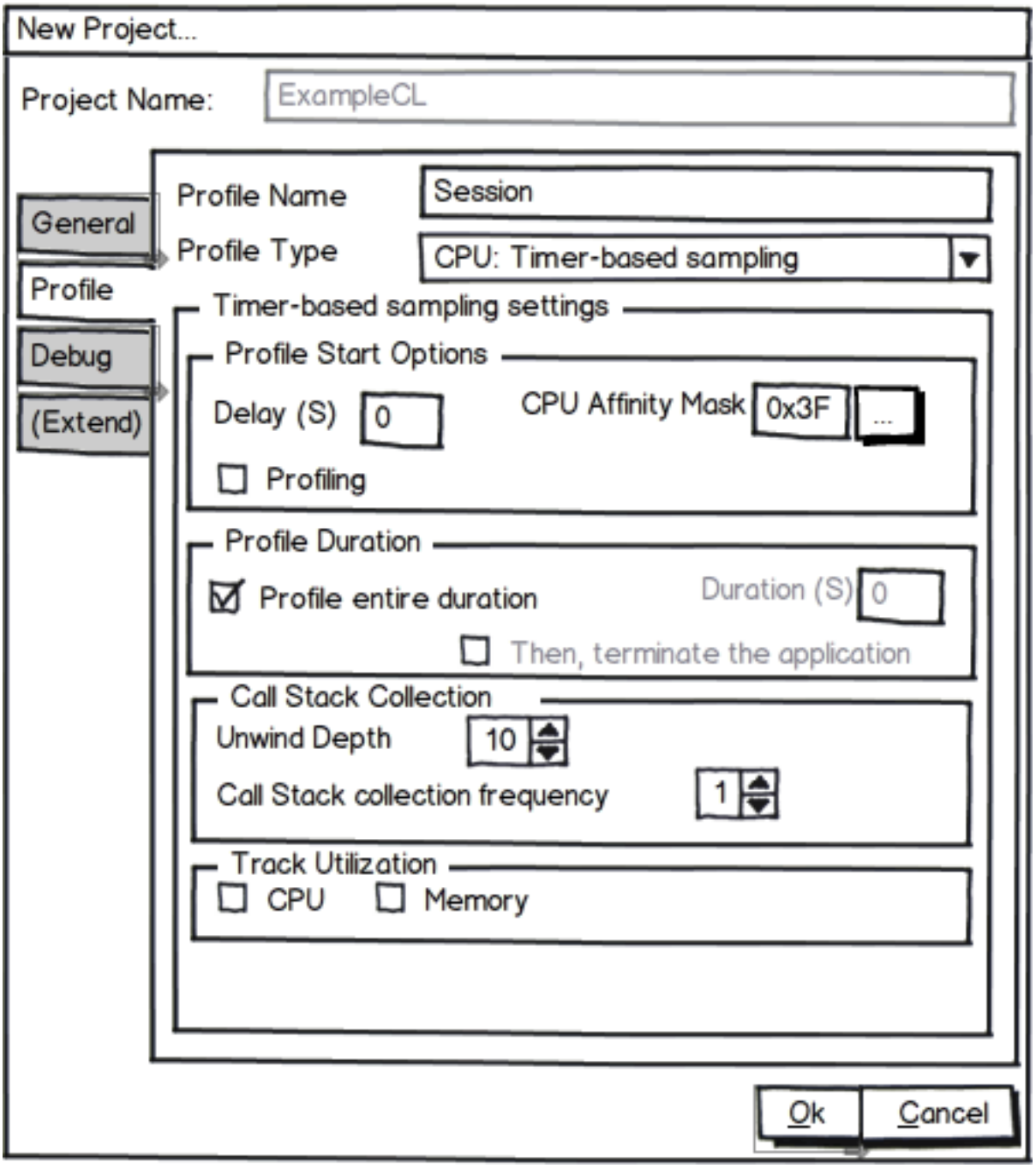

CodeXL - ExampleCL.uni (Profile Mode)
File
Edit
View
Debug
Profile
Tools
Window
Help
Properties Window
Debug
Profile
Toolbars
Show Line Numbers
Reset GUI Layout
Session List
Session 2
Profiling Sessions
Session
Session 1
Renamed Session
Session 2
Time-based profile
Manage
Separate by none
Group Events
Overview
System Data
Ready
Properties
Session 2
- General
Notes
Executed
C:/code/Example/release/Example.exe
Arguments
-V 1
Working Directory
C:/code/Example/release/
Environmental Variables
+ Start Options
- Duration
Profile Entire Duration
Duration
15 S
Terminate after
- Call Stack Collection
Collect Call Stacks
Unwind Depth
10
Frequency
1
- Cache Line Utilization
Analyze Cache Line Utilization

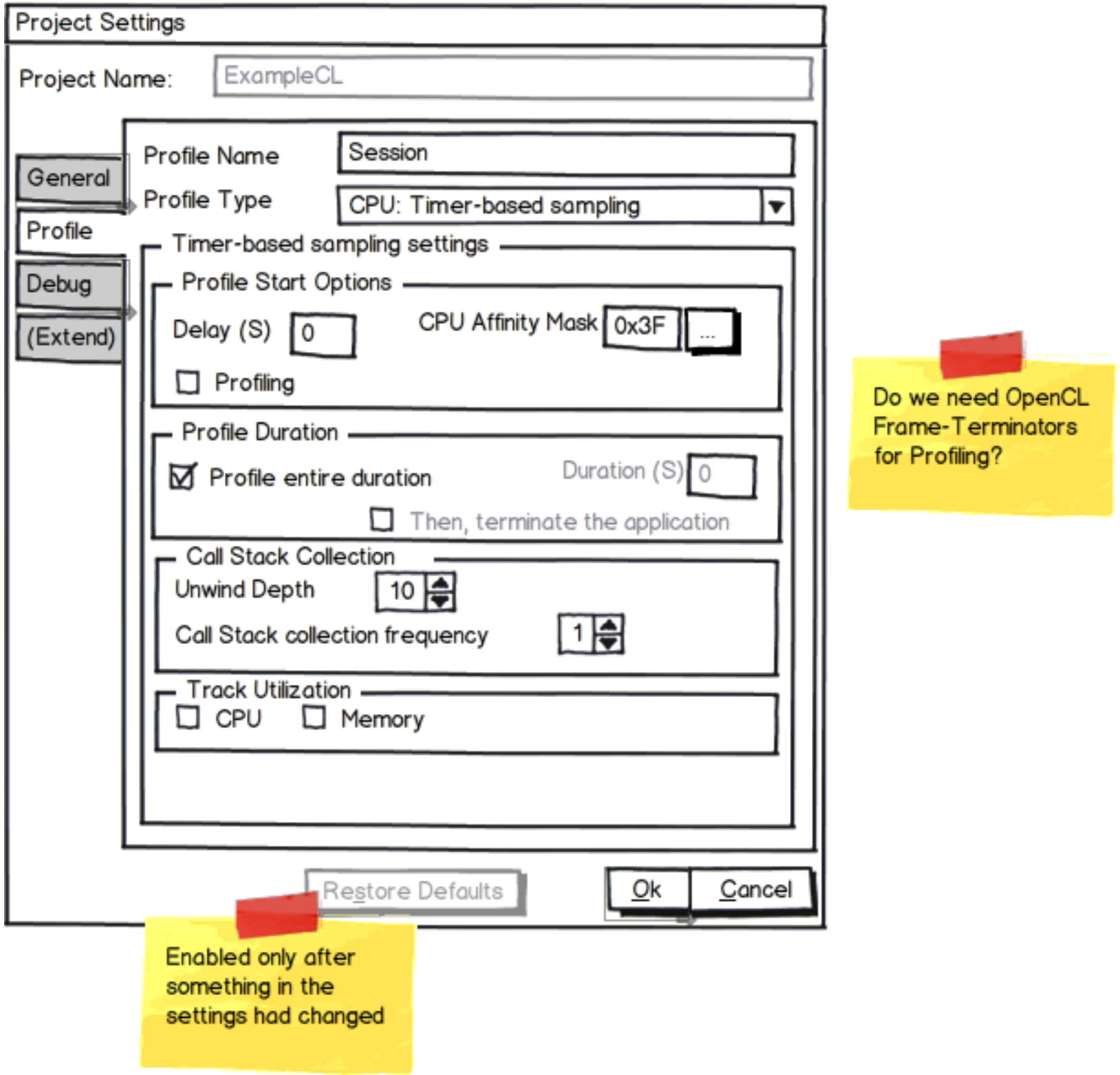

CodeXL - ExampleCL.uni (Profile Mode)
File
Edit
View
Debug
Profile
Tools
Window
Help
D
P
Profiling Sessions
Timer-based sampling
Session 1
Renamed Session
Session 2
Instruction-based sampling
Session 1
Events assess performance
Session 1
Session 2
Session 3
Events investigate L2 cache access
Events investigate branching
Events investigate data access
Session 1
Session 2
Session 2
Time-based profile
Manage
Separate by none
Overview
System Data
Profiling
Profling Started...
Session 2
Properties
Breakpoints
Profiling: CPU: Timer-based sampling 0:0:13 Running

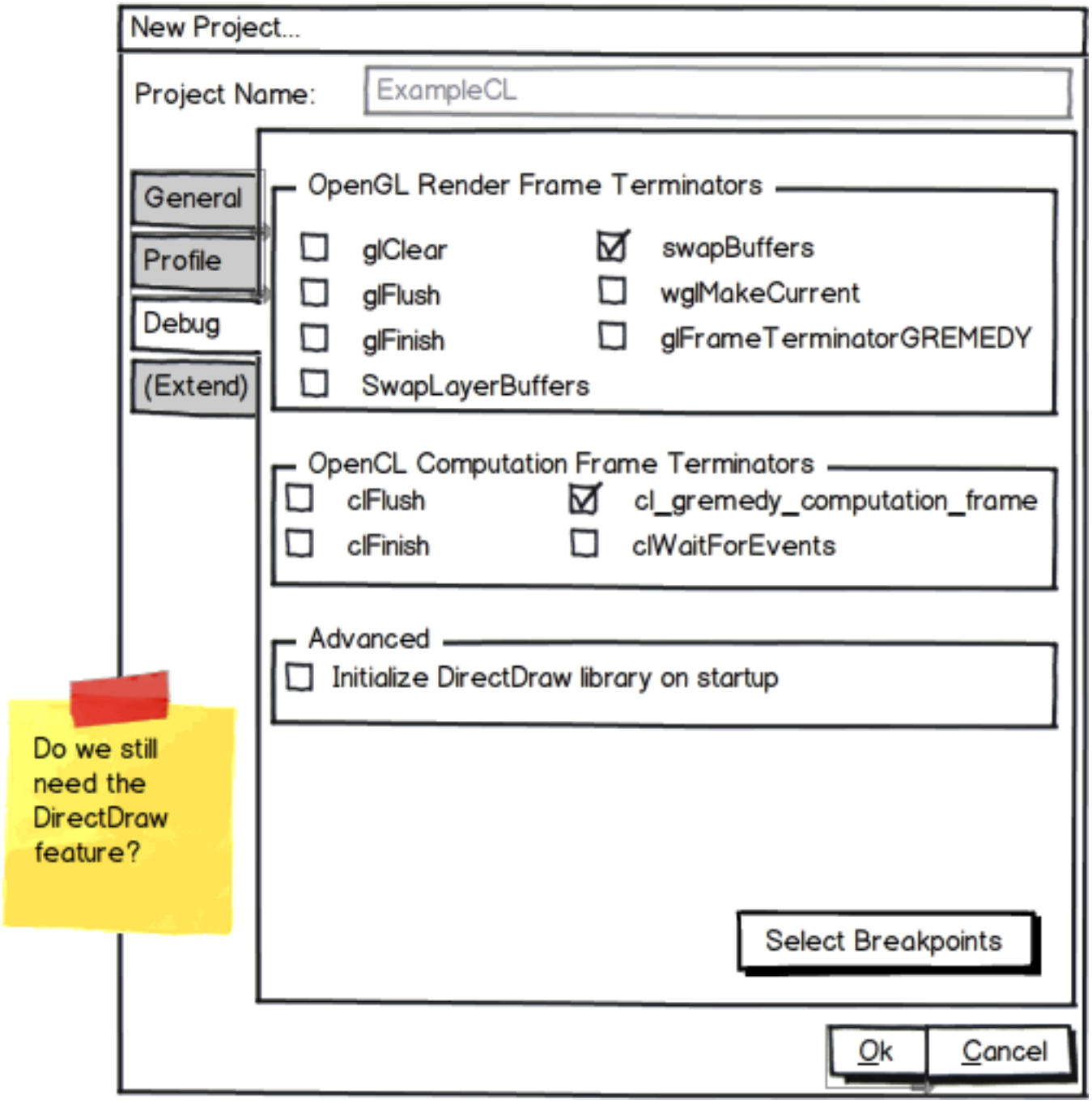

CodeXL - ExampleCL.uni (Profile Mode)
File
Edit
View
Debug
Profile
Tools
Window
Help
D
P
Start Profiling
Profile mode - CPU: Timer-based sampling
CPU: Timer-based sampling
CPU: Instruction-based sampling
CPU: Events assess performance
CPU: Timer-based sampling
CPU: Instruction-based sampling
CPU: Events assess performance
CPU: Timer-based sampling
CPU: Instruction-based sampling
All Profiles
Profile Settings...
First 3 are the most recent profile modes used
Next 5 modes are the Pre-defined Profile modes
Ready

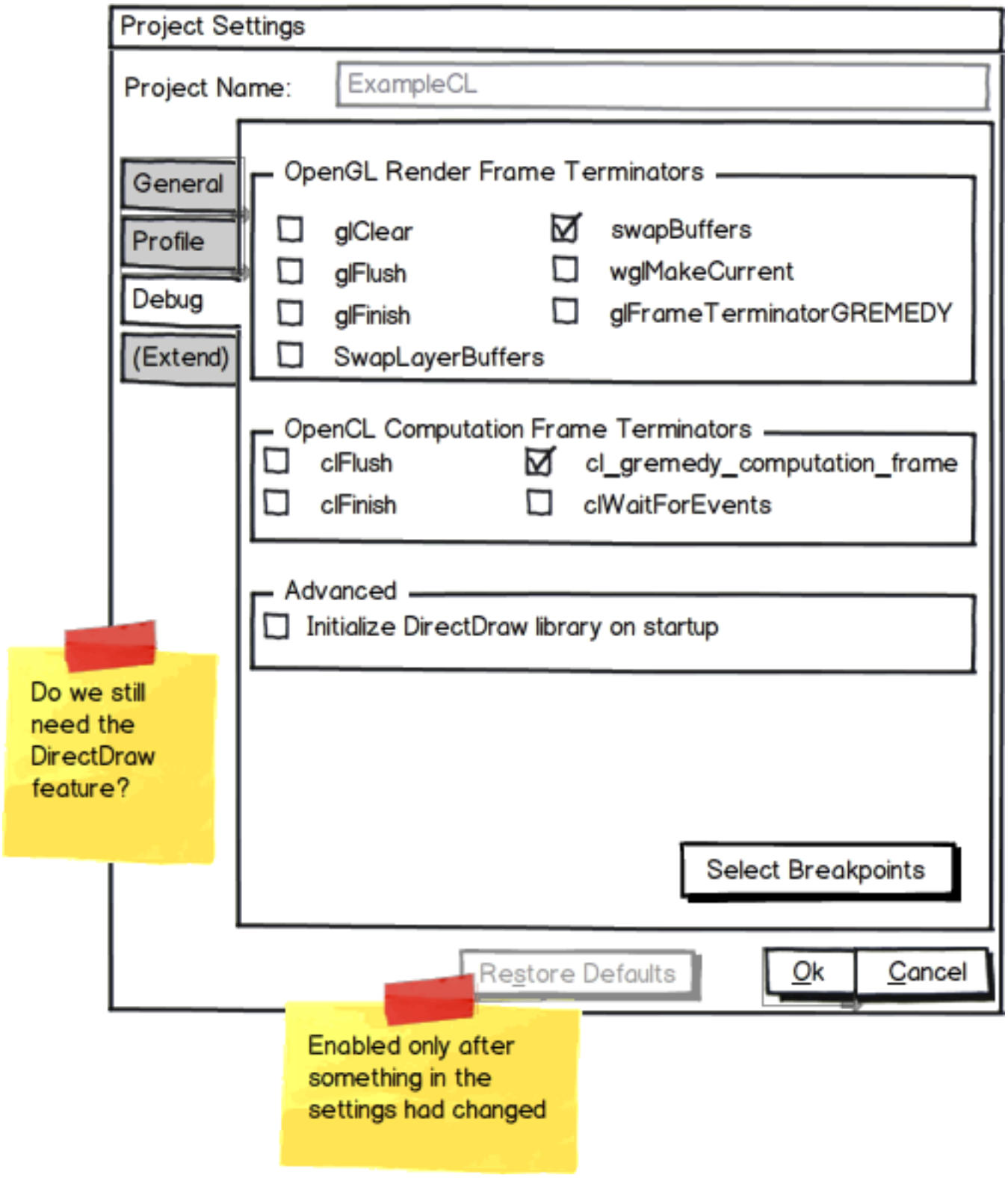

New Project...
Project Name:
ExampleCL
General
Profile
Debug
(Extend)
Executable or script
...
Workina Directorv
...
Program Arguments (optional)
Environmental Variables (optional)
...
Kernel Source files folder
...
Ok
Cancel

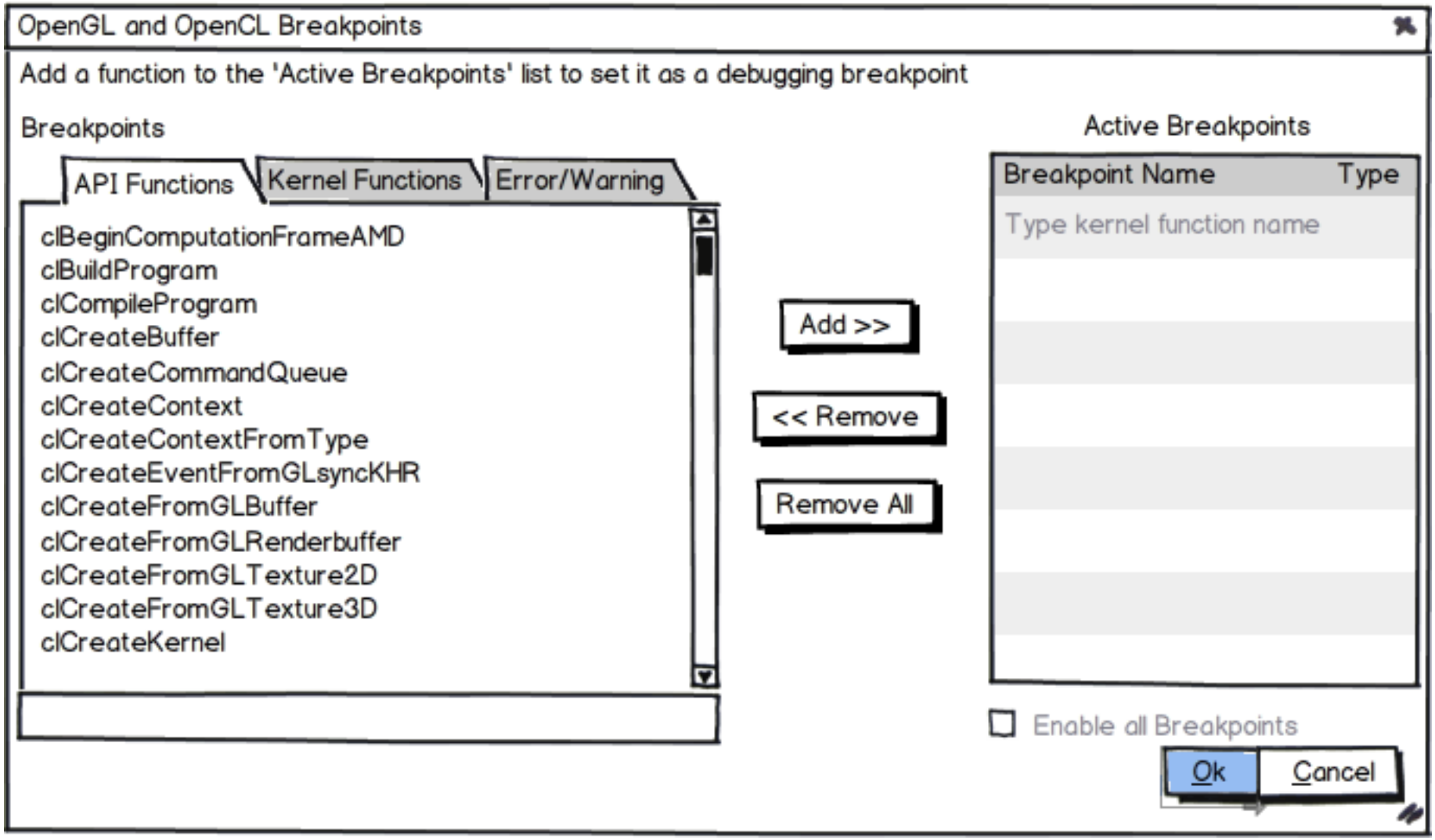

Project Settings
Project Name:
ExampleCL
General
Profile
Debug
(Extend)
Executable or script
...
Workina Directorv
...
Program Arguments (optional)
Environmental Variables (optional)
...
Kernel Source files folder
...
Restore Defaults
Ok
Cancel
Do we need OpenCL Frame-Terminators for Profiling?
Enabled only after something in the settings had changed

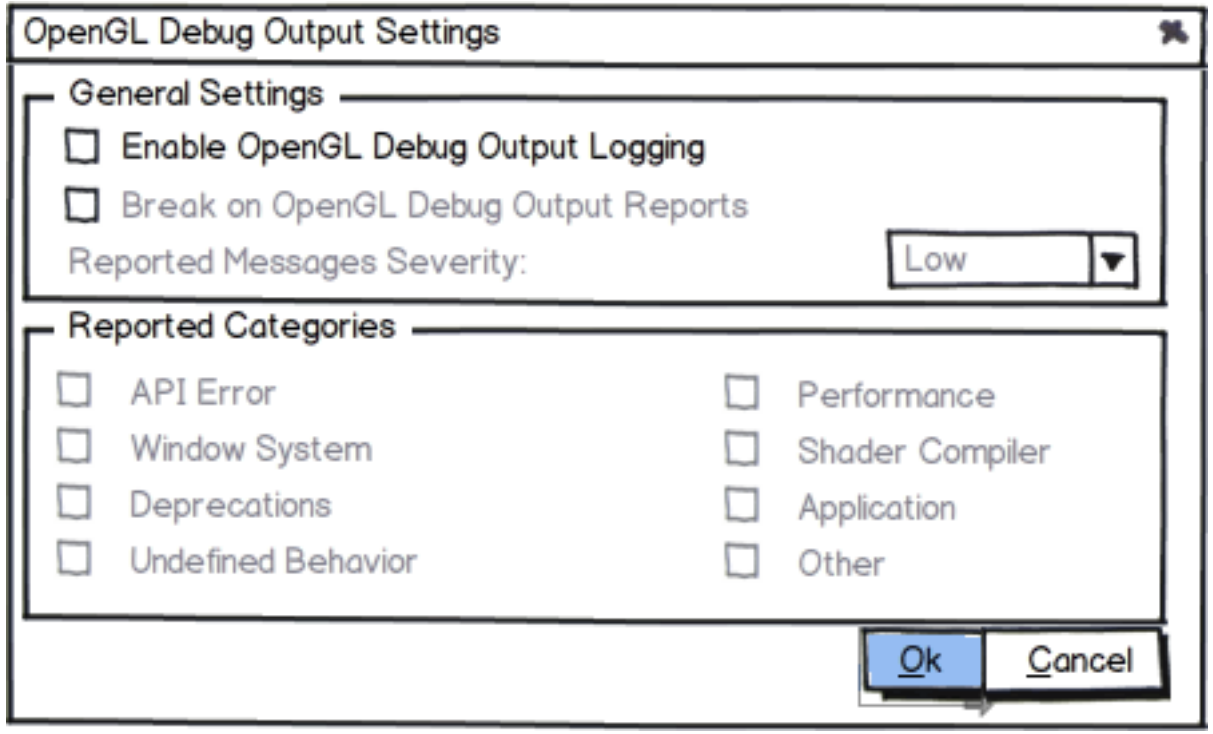

New Project...
Project Name:
ExampleCL
General
Profile
Debug
(Extend)
Profile Name
Session
Profile Type
CPU: Timer-based sampling
Timer-based sampling settings
Profile Start Options
Delay (S)
0
CPU Affinity Mask
0x3F
...
Profiling
Profile Duration
Profile entire duration
Duration (S)
0
Then, terminate the application
Call Stack Collection
Unwind Depth
10
Call Stack collection frequency
1
Track Utilization
CPU
Memory
Ok
Cancel

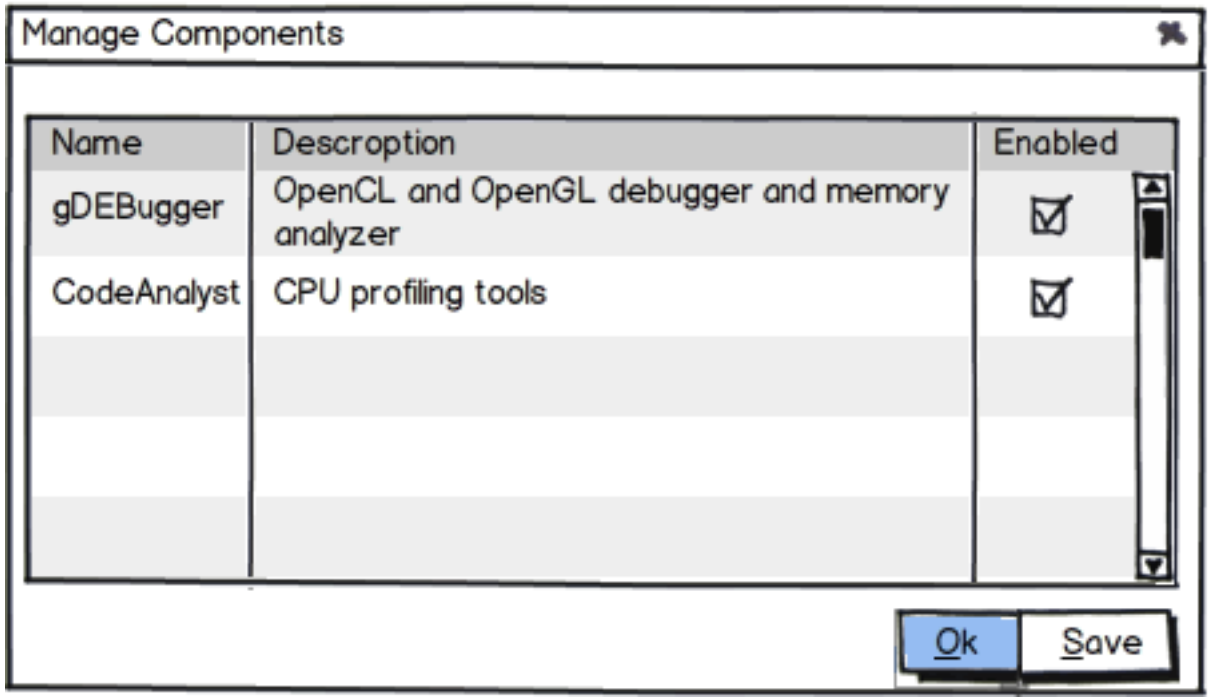

Project Settings
Project Name:
ExampleCL
General
Profile
Debug
(Extend)
Profile Name
Session
Profile Type
CPU: Timer-based sampling
Timer-based sampling settings
Profile Start Options
Delay (S)
0
CPU Affinity Mask
0x3F
...
Profiling
Profile Duration
Profile entire duration
Duration (S)
0
Then, terminate the application
Call Stack Collection
Unwind Depth
10
Call Stack collection frequency
1
Track Utilization
CPU
Memory
Restore Defaults
Ok
Cancel
Do we need OpenCL Frame-Terminators for Profiling?
Enabled only after something in the settings had changed


New Project...
Project Name:
ExampleCL
General
Profile
Debug
(Extend)
OpenGL Render Frame Terminators
glClear
glFlush
glFinish
SwapLayerBuffers
swapBuffers
wglMakeCurrent
glFrameTerminatorGREMEDY
OpenCL Computation Frame Terminators
clFlush
clFinish
cl_gremedy_computation_frame
clWaitForEvents
Advanced
Initialize DirectDraw library on startup
Do we still need the DirectDraw feature?
Select Breakpoints
Ok
Cancel

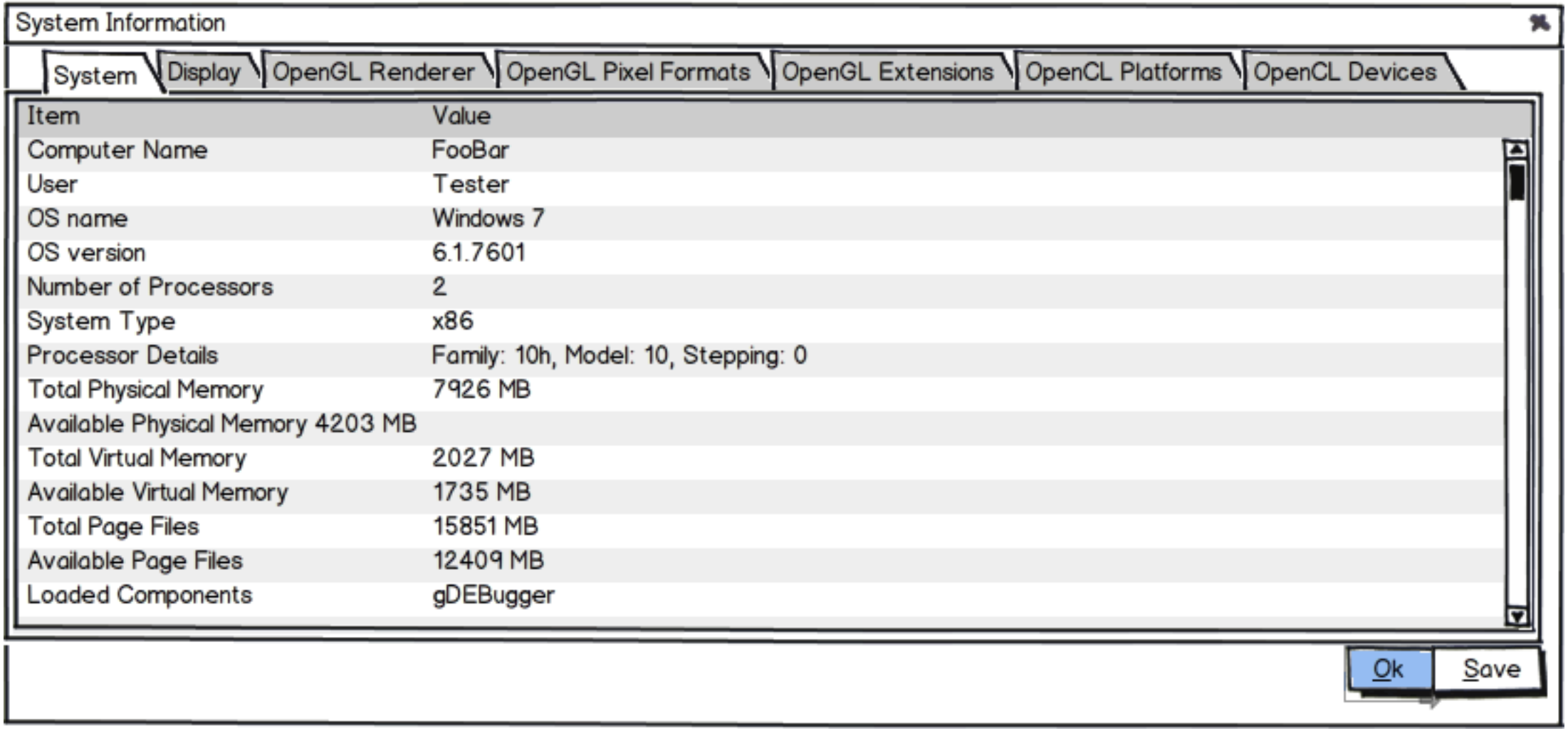

Project Settings
Project Name:
ExampleCL
General
Profile
Debug
(Extend)
OpenGL Render Frame Terminators
glClear
glFlush
glFinish
SwapLayerBuffers
swapBuffers
wglMakeCurrent
glFrameTerminatorGREMEDY
OpenCL Computation Frame Terminators
clFlush
clFinish
cl_gremedy_computation_frame
clWaitForEvents
Advanced
Initialize DirectDraw library on startup
Do we still need the DirectDraw feature?
Select Breakpoints
Restore Defaults
Ok
Cancel
Enabled only after something in the settings had changed

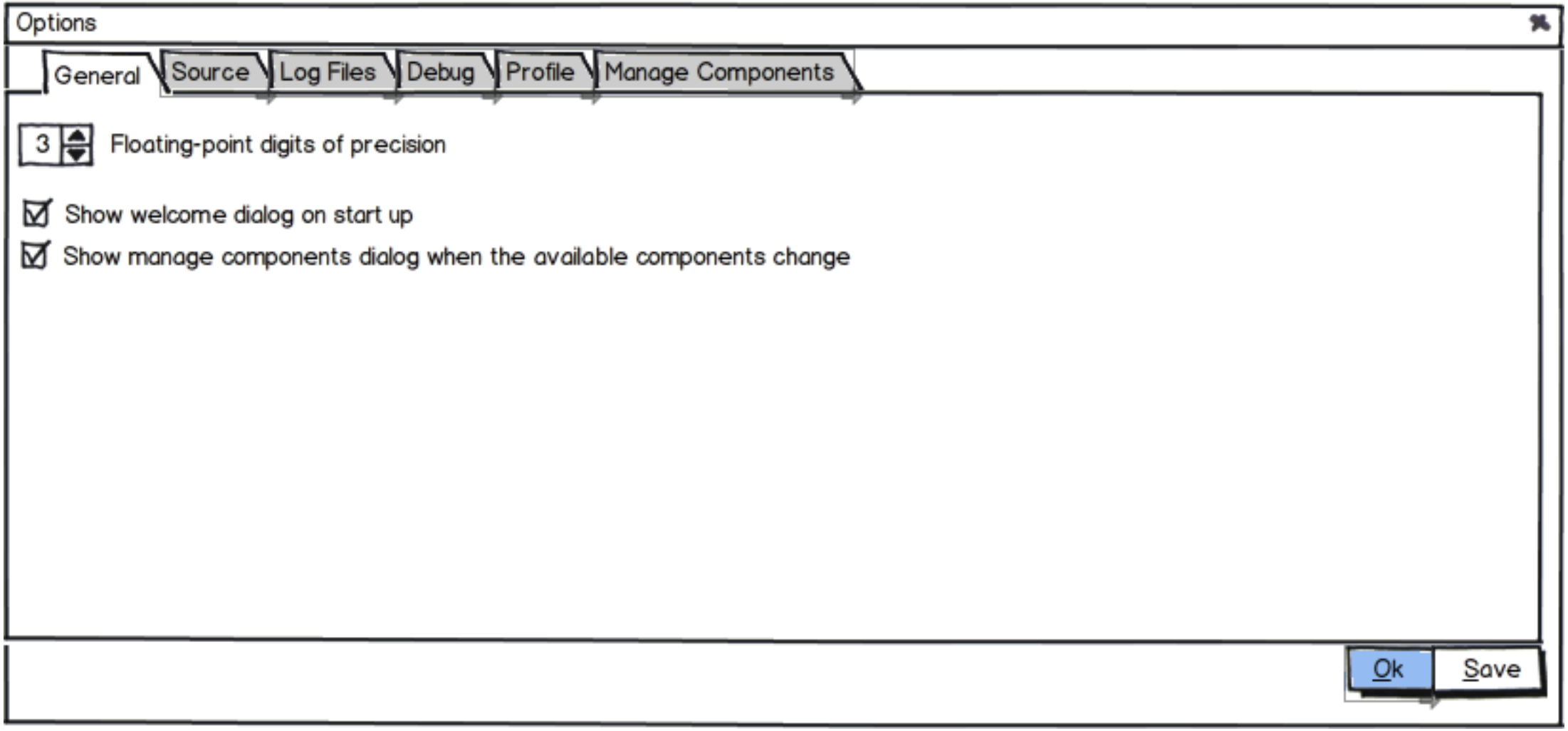

OpenGL and OpenCL Breakpoints
Add a function to the 'Active Breakpoints' list to set it as a debugging breakpoint
Breakpoints
API Functions
Kernel Functions
Error/Warning
clBeginComputationFrameAMD
clBuildProgram
clCompileProgram
clCreateBuffer
clCreateCommandQueue
clCreateContext
clCreateContextFromType
clCreateEventFromGLsyncKHR
clCreateFromGLBuffer
clCreateFromGLRenderbuffer
clCreateFromGLTexture2D
clCreateFromGLTexture3D
clCreateKernel
Add >>
<< Remove
Remove All
Active Breakpoints
Breakpoint Name
Type
Type kernel function name
Enable all Breakpoints
Ok
Cancel

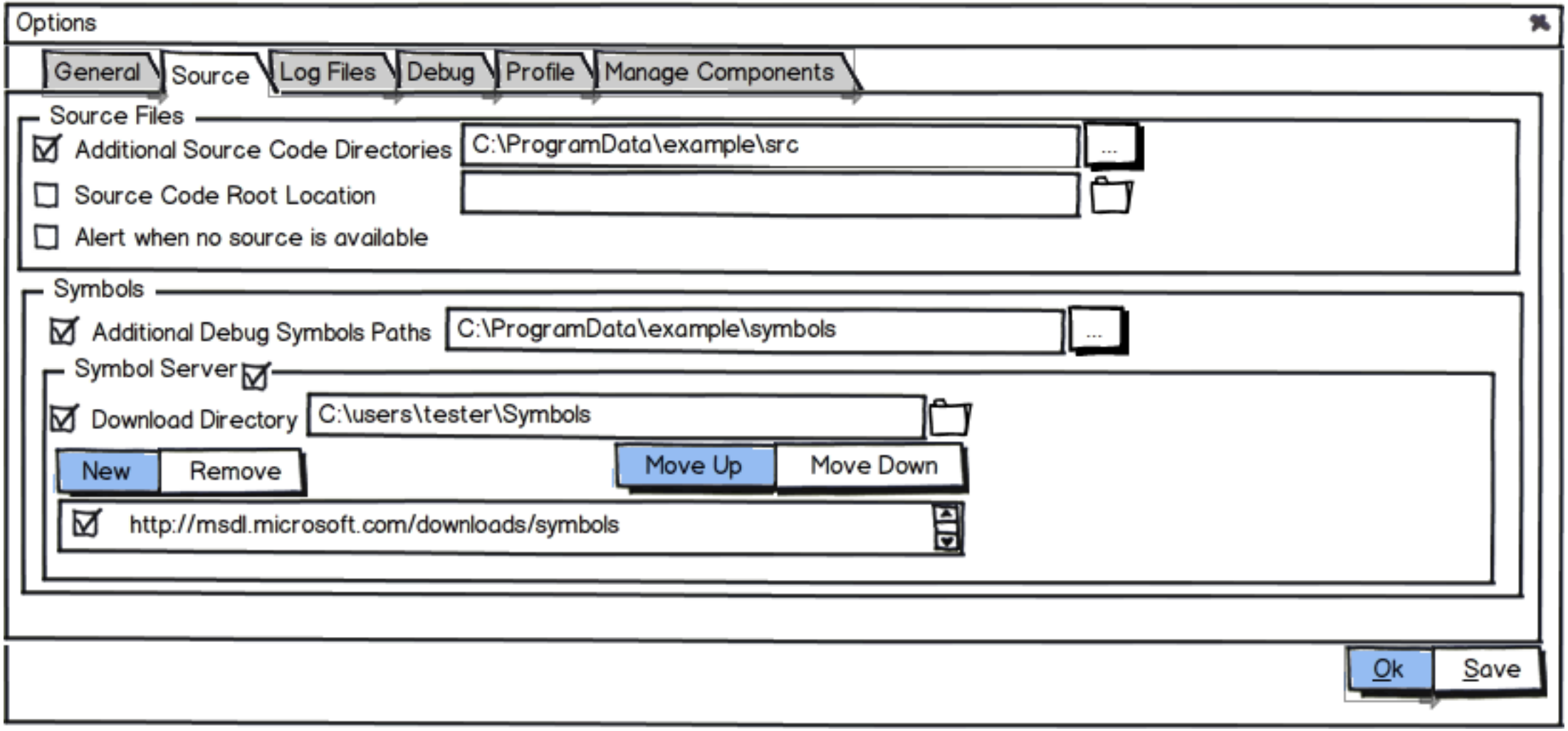

OpenGL Debug Output Settings
General Settings
Enable OpenGL Debug Output Logging
Break on OpenGL Debug Output Reports
Reported Messages Severity:
Low
Reported Categories
API Error
Window System
Deprecations
Undefined Behavior
Performance
Shader Compiler
Application
Other
Ok
Cancel

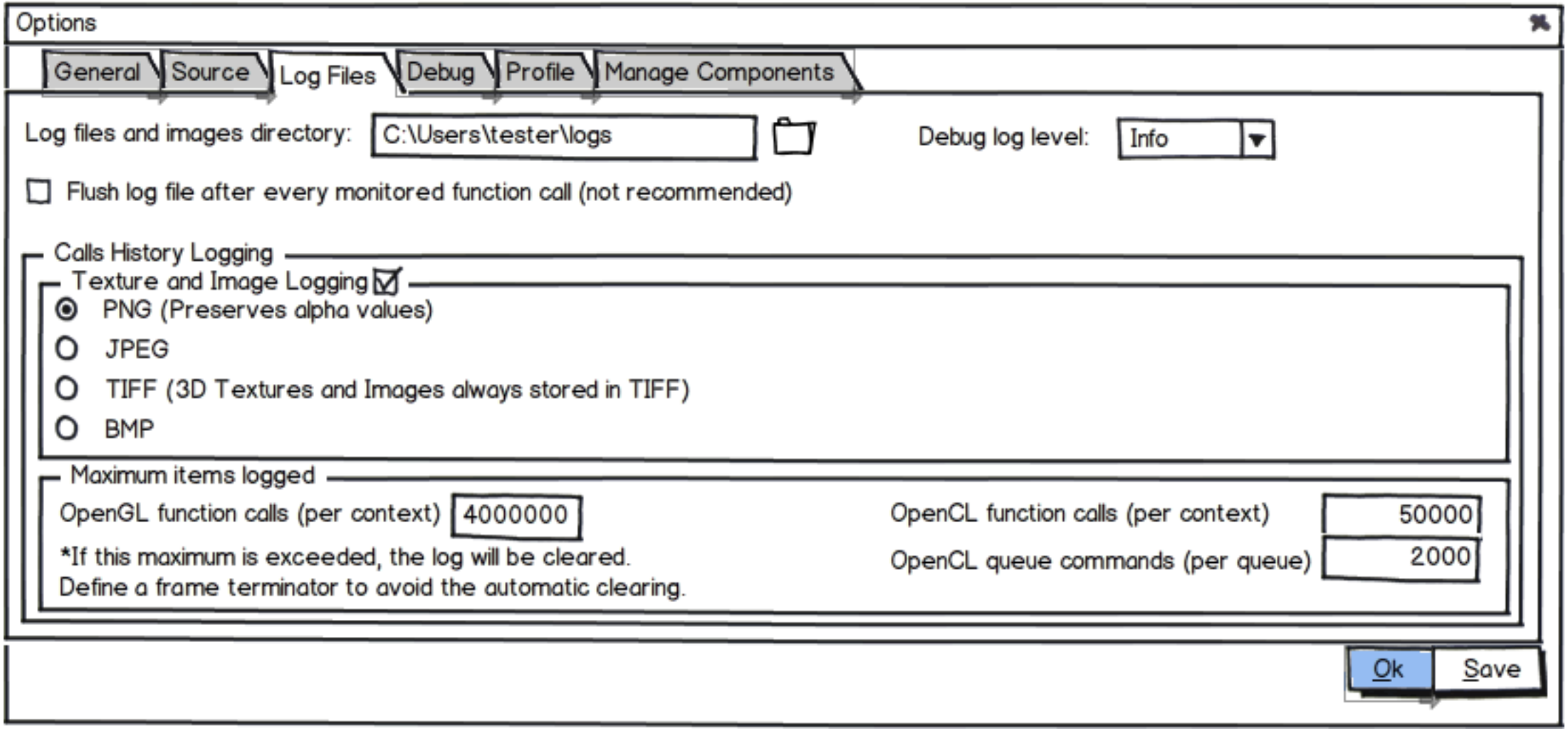


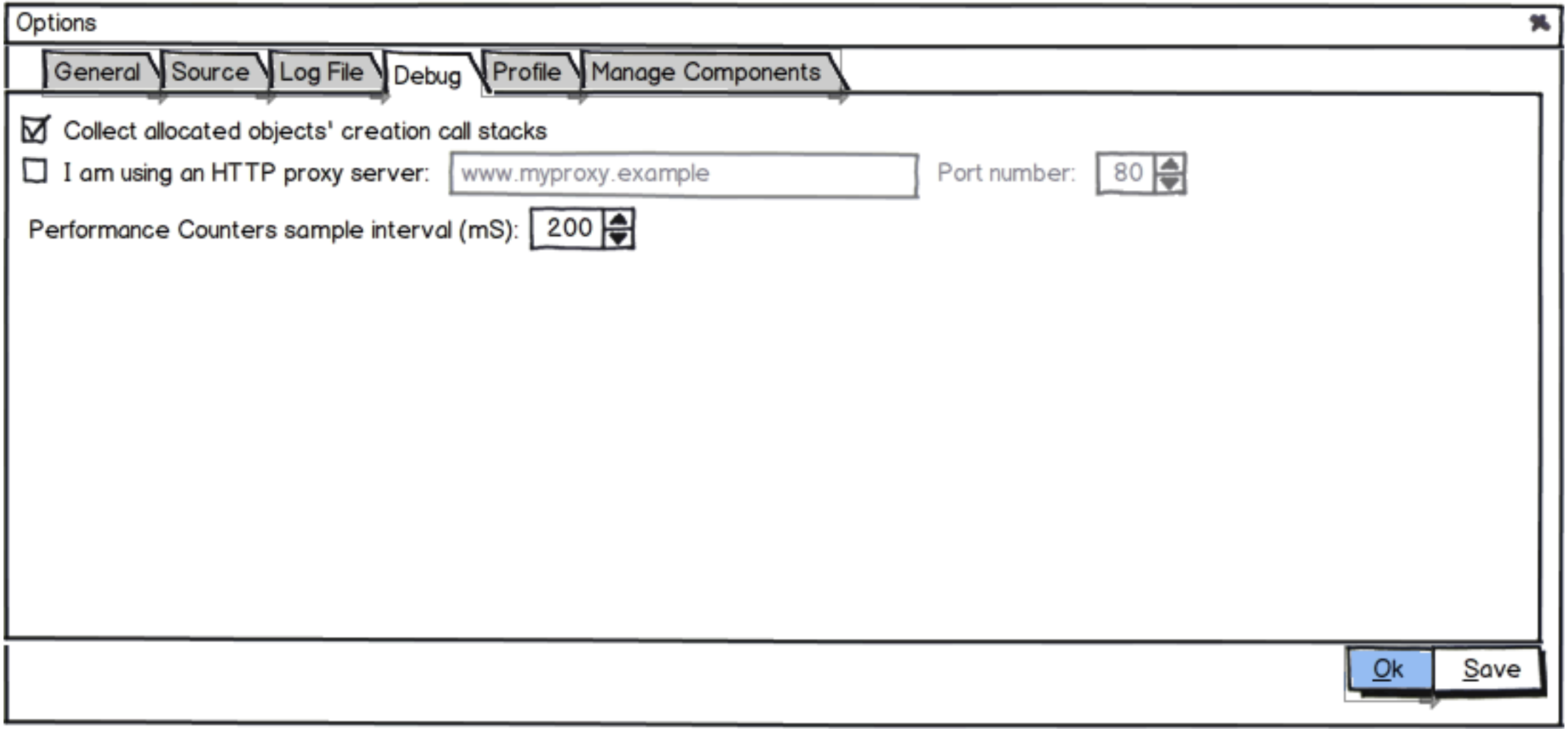
Allows for user control. Also appears after the welcome screen when the available components change.

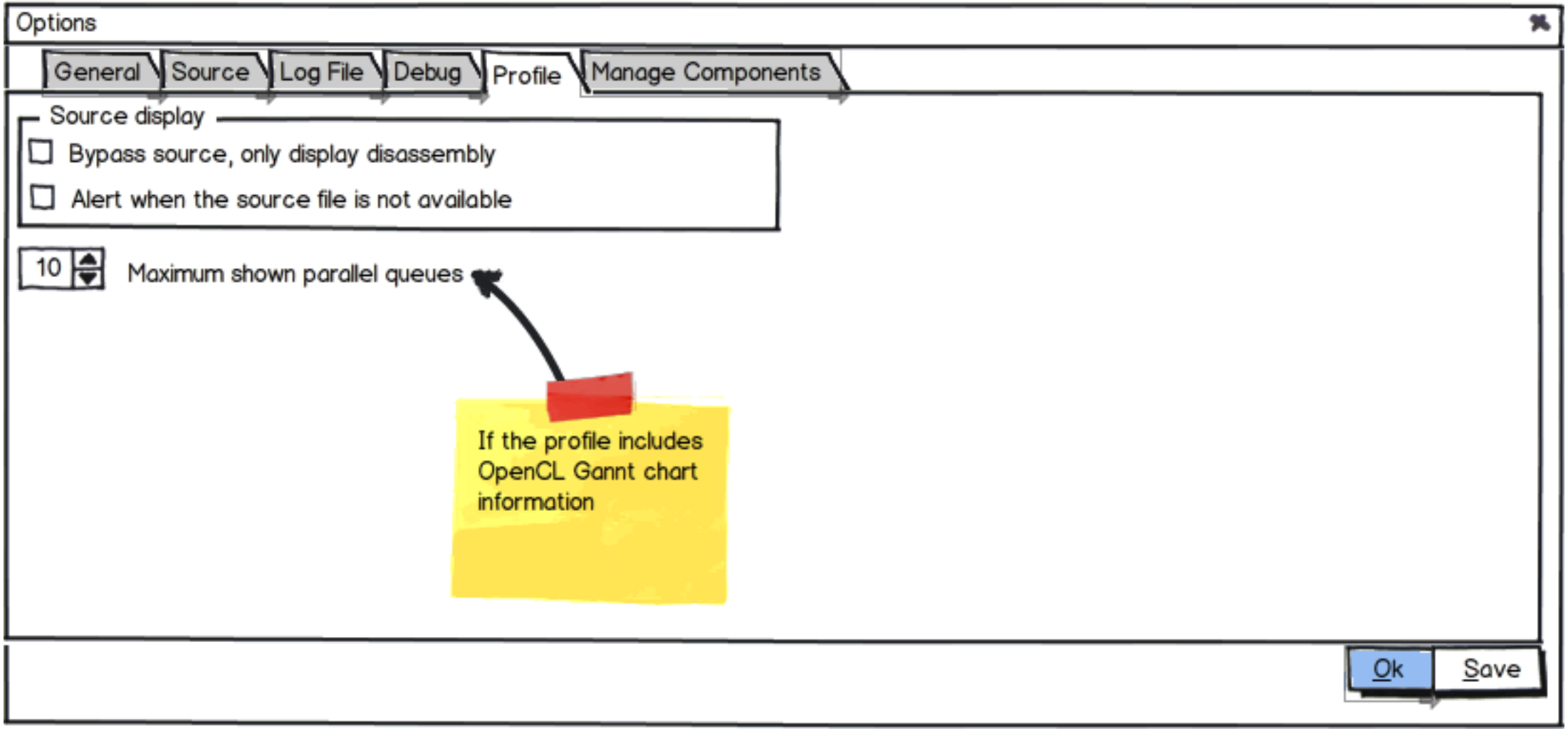

System Information
System
Display
OpenGL Renderer
OpenGL Pixel Formats
OpenGL Extensions
OpenCL Platforms
OpenCL Devices
Item
Value
Computer Name
FooBar
User
Tester
OS name
Windows 7
OS version
6.1.7601
Number of Processors
2
System Type
x86
Processor Details
Family: 10h, Model: 10, Stepping: 0
Total Physical Memory
7926 MB
Available Physical Memory 4203 MB
Total Virtual Memory
2027 MB
Available Virtual Memory
1735 MB
Total Page Files
15851 MB
Available Page Files
12409 MB
Loaded Components
gDEBugger
Ok
Save

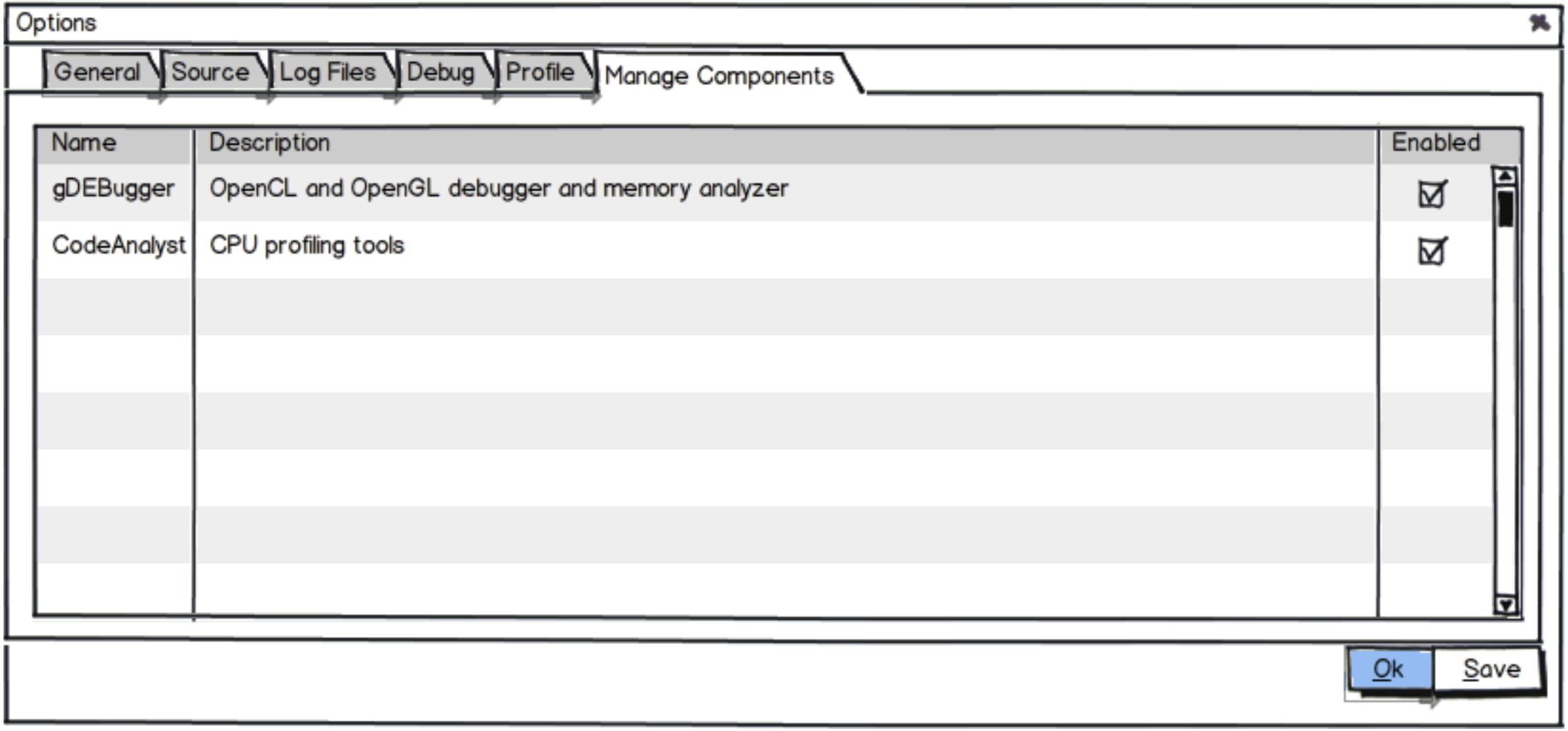

Options
General
Source
Log Files
Debug
Profile
Manage Components
3
Floating-point digits of precision
Show welcome dialog on start up
Show manage components dialog when the available components change
Ok
Save

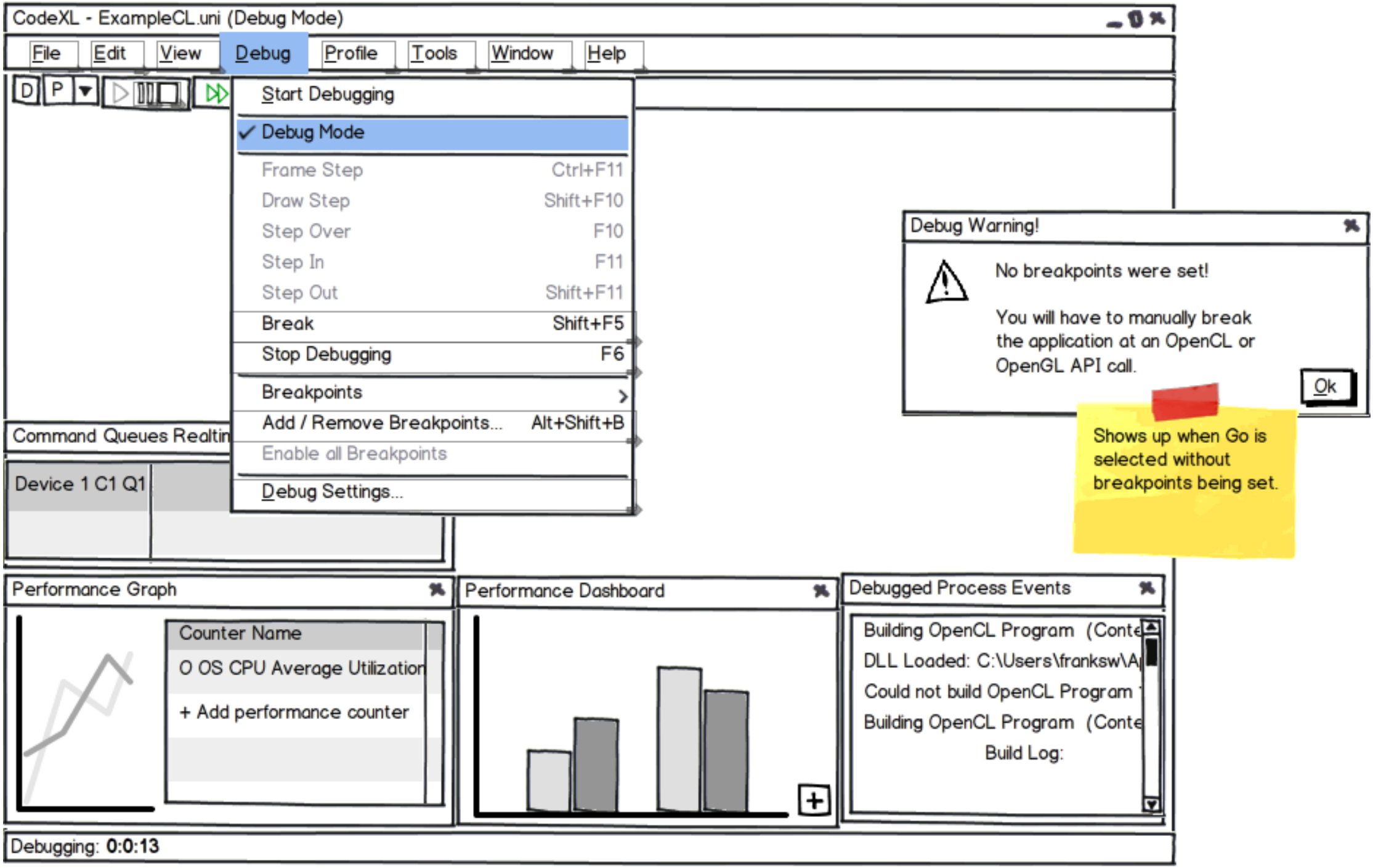

Options
General
Source
Log Files
Debug
Profile
Manage Components
Source Files
Additional Source Code Directories
C:\ProgramData\example\src
...
Source Code Root Location
Alert when no source is available
Symbols
Additional Debug Symbols Paths
C:\ProgramData\example\symbols
...
Symbol Server
Download Directory
C:\users\tester\Symbols
New
Remove
Move Up
Move Down
http://msdl.microsoft.com/downloads/symbols
Ok
Save


Options
General
Source
Log Files
Debug
Profile
Manage Components
Log files and images directory:
C:\Users\tester\logs
Debug log level:
Info
Flush log file after every monitored function call (not recommended)
Calls History Logging
Texture and Image Logging
PNG (Preserves alpha values)
JPEG
TIFF (3D Textures and Images always stored in TIFF)
BMP
Maximum items logged
OpenGL function calls (per context)
4000000
*If this maximum is exceeded, the log will be cleared.
Define a frame terminator to avoid the automatic clearing.
OpenCL function calls (per context)
50000
OpenCL queue commands (per queue)
2000
Ok
Save


Options
General
Source
Log File
Debug
Profile
Manage Components
Collect allocated objects' creation call stacks
I am using an HTTP proxy server:
www.myproxy.example
Port number:
80
Performance Counters sample interval (mS):
200
Ok
Save


Options
General
Source
Log File
Debug
Profile
Manage Components
Source display
Bypass source, only display disassembly
Alert when the source file is not available
10
Maximum shown parallel queues
If the profile includes OpenCL Gannt chart information
Ok
Save


Options
General
Source
Log Files
Debug
Profile
Manage Components
Name
Description
Enabled
gDEBugger
OpenCL and OpenGL debugger and memory analyzer
CodeAnalyst
CPU profiling tools
Ok
Save


CodeXL - ExampleCL.uni (Debug Mode)
File
Edit
View
Debug
Profile
Tools
Window
Help
Start Debugging
Debug Mode
Frame Step Ctrl+F11
Draw Step Shift+F10
Step Over F10
Step In F11
Step Out Shift+F11
Break Shift+F5
Stop Debugging F6
Breakpoints
Add / Remove Breakpoints... Alt+Shift+B
Enable all Breakpoints
Debug Settings...
Command Queues Realtin
Device 1 C1 Q1
Debug Warning!
No breakpoints were set!
You will have to manually break the application at an OpenCL or OpenGL API call.
Ok
Shows up when Go is selected without breakpoints being set.
Performance Graph
Counter Name
O OS CPU Average Utilizatior
+ Add performance counter
Performance Dashboard
Debugged Process Events
Building OpenCL Program (Conte
DLL Loaded: C:\Users\franksw\A
Could not build OpenCL Program
Building OpenCL Program (Conte
Build Log:
Debugging: 0:0:13