

I INDEX

Symbols

% of Histogram data, defined [3-50](#)
/* [3-25](#)

A

a_dot_c, running to collect profile data
[3-14](#)
Add Files dialog box [3-23](#)
Adding and editing project source files
[3-24](#)
ADSP-21535 memory map [3-27](#)
Analog Devices
 product information [1-7](#)
 products [1-7](#)
Assembly language, advantages over C
 code [3-36](#)

B

Bookmarks, adding to source files [3-25](#)
Breakpoint symbols
 red circle [3-12](#)
 yellow arrow [3-12](#)
Breakpoints dialog box [3-12](#)
Browse Program Symbols dialog box
[3-16](#), [3-33](#)
Build Project command [3-7](#)

C

C program
 building and running [3-4](#)
 modifying to call as assembly routine
 [3-19](#)
C source file dotprod_main.c [3-7](#)
Changing focus, defined [3-57](#)
Code development tools
 features [2-5](#)
 overview [2-2](#)
Commands
 Build Project [3-7](#)
 Rebuild All [3-7](#)
Comment characters /*, moving in
 source files [3-25](#)
Compile tab page [3-22](#)
Configuring and using multiprocessor
 groups [3-67](#)
Console tab page [3-13](#)
Conventions [1-4](#)
Convolution program
 data arrays [3-38](#)
 entering data sets [3-40](#)
 loading [3-37](#)
 running [3-42](#)
 zooming in on a selected region [3-43](#)
Convolution.cpp source file [3-50](#)

INDEX

convolution.dxe (see Convolution program) 3-37

Creating

debug session 3-9

new project 3-19

Customer support 1-8

D

Data cursor 3-45

Data Cursor command 3-45

Data sets

input and output 3-40

plotting 3-39

Debug features 2-4

Debug sessions

setting up a new session 3-9

setting up subsequent sessions 3-10

Default multiprocessor group 3-67

Dependency folder contents 3-24

Dialog boxes

Add Files 3-23

Breakpoints 3-12

Browse Program Symbols 3-16, 3-33

Find 3-24, 3-29

New Session 3-9

New Session (multiprocessor) 3-52, 3-68

Plot Configuration 3-39

Profile Ranges 3-15, 3-32

Project Options 3-20, 3-22

Save New Project As 3-19

Disassembly window

adding and deleting breakpoints 3-13

information displayed 3-12

pinning to a processor 3-60

dot_product

rebuilding 3-30

running 3-31

dot_product_asm, building the project 3-20

dot_product_c, folder location 3-5

dotprod_main.c

modifying to call a_dot_c_asm 3-24

opening 3-7

dotprodasm.ldf

modifying 3-27

viewing 3-27

dotprodc, running 3-13

dotprodc.dxe, automatically loading 3-10

E

Editor window 3-8, 3-26

Enable optimization check box 3-22

Enable Profiling command 3-47

Exec %, defined 3-18

Exec Count, defined 3-18

Exec Cycles, defined 3-18

Execution Unit 3-50

Exercises

five, multiprocessor debugging 3-52

four, statistical profiling 3-46

- one, building and running a C program [3-4](#)
 - three, plotting data [3-37](#)
 - two, modifying a C program to call an assembly routine [3-19](#)
- F**
- Find dialog box [3-24](#)
- G**
- General tab page [3-6](#)
 - Generate debug information check box [3-22](#)
 - Groups tab page (Multiprocessor window) [3-70](#)
- H**
- Histogram, defined [3-50](#)
- I**
- Including dependency files [3-24](#)
 - Information services, Analog Devices, Inc. [1-7](#)
 - Input data set, entering [3-41](#)
 - Integrated Development and Debugging Environment (IDDE) [3-2](#)
- J**
- JTAG emulator [3-46](#)
- L**
- Linker Description File (LDF)
 - adding to a project [3-23](#)
 - folder [3-2](#)
 - Linker error, viewing in the Output window [3-28](#)
 - Load executable after build command [3-9](#)
 - Logical segments [3-27](#)
- M**
- Magnifying a selected region [3-43](#)
 - Manual
 - contents description [1-3](#)
 - conventions [1-4](#)
 - intended audience [1-2](#)
 - online access [1-5](#)
 - purpose [1-2](#)
 - related documents [1-6](#)
 - Memory map, ADSP-21535 [3-27](#)
 - Messages
 - Halted [3-17](#)
 - Output window [3-11](#)
 - project has been moved [3-6](#)
 - project is up to date, build completed successfully [3-7](#)
 - Modifying a C program to call an assembly routine [3-19](#)
 - Multiprocessor commands [3-66](#)
 - Multiprocessor debug session
 - changing focus [3-57](#)
 - patching a new instruction [3-58](#)
 - pinning Disassembly windows to a processor [3-59](#)

INDEX

Multiprocessor debugging [3-52](#)
Multiprocessor groups
 activating new groups [3-73](#)
 adding processors to the Default group [3-70](#)
 configuring and using [3-67](#)
 creating and configuring [3-72](#)
Multiprocessor Reset command [3-71](#)
Multiprocessor simulator sessions
 creating [3-52](#)
 differences from single processor sessions [3-54](#)
Multiprocessor tool buttons [3-56](#)
Multiprocessor toolbar [3-56](#)
Multiprocessor window
 Groups tab page [3-70](#)
 Status tab page [3-55](#)

N

New Session dialog box [3-9](#), [3-52](#), [3-67](#)
Notation conventions [1-4](#)

O

Opening a project [3-4](#)
Output data set, entering [3-41](#)
Output window [3-7](#)
 Console tab page [3-13](#)
 information displayed [3-11](#)
 viewing a linker error [3-28](#)

P

Pin to Processor command [3-59](#)
Pinning windows, defined [3-57](#)
Plot Configuration dialog box [3-39](#), [3-41](#)
Plot window
 after running the Convolution program [3-43](#)
 before running the Convolution program [3-42](#)
 magnified result [3-44](#)
 magnifying data points [3-45](#)
 opening [3-39](#)
 selecting a region to magnify [3-44](#)
 viewing data points [3-45](#)
 zooming in on a region [3-43](#)
Plotting
 data [3-37](#)
 specifying data sets [3-39](#)
Preferences, selecting [3-6](#)
Products, Analog Devices [1-7](#)
Profile information [3-14](#)
Profile ranges
 end address [3-16](#), [3-33](#)
 start address [3-16](#), [3-33](#)
Profile Ranges dialog box [3-16](#), [3-33](#)
Profile window
 example [3-18](#), [3-35](#)
 opening [3-17](#), [3-34](#)
Profiles
 comparing results [3-35](#)
 uses [3-14](#)
Profiling set up procedure [3-14](#)

- Programs, running in a debug session 3-9
- Project Options dialog box 3-20, 3-22
- Project tab page 3-20
- Projects
 - adding files to dot_product 3-23
 - building dot_product 3-30
 - building dotprodc 3-7
 - creating a new project 3-19
 - dot_product_asm, building 3-20
 - dotprodc files 3-6
 - managing overview 2-2
 - modifying source files 3-24
 - opening 3-4
 - options 3-20
- R
- Read Count, defined 3-18
- Rebuild All command 3-7
- Related documents 1-6
- Reset Zoom command 3-44
- S
- Save New Project As dialog box 3-19
- Select All Processors command 3-70
- Source files
 - adding to a project 3-23
 - modifying 3-24
- Source folder contents 3-24
- Stack memory types 3-27
- Statistical Profiling 3-46
- Statistical profiling
 - collecting and examining data 3-49
 - enabling 3-47
 - loading the Convolution program 3-46
 - results of analyzing the Convolution program 3-49
 - viewing profile data for the convolution.cpp 3-51
- Statistical Profiling Results window 3-49
- Status tab page (Multiprocessor window) 3-55, 3-59, 3-60
- Stepping in a multiprocessor debug session 3-66
- T
- Tab pages
 - Compile 3-22
 - General (preferences) 3-6
 - Project 3-20
- Technical support 1-8
- Toolbar buttons 3-3
- Tutorial overview 3-2
- V
- View Sample Count command 3-50
- viewing data 3-42
- VisualDSP++
 - about 1-2
 - features 2-2
 - help 1-5
 - Help Navigation 1-5
 - starting 3-4
 - tool buttons 3-3

INDEX

W

Windows

Disassembly [3-12](#), [3-13](#)

Editor [3-8](#), [3-26](#)

Multiprocessor (Group tab page)
[3-70](#)

Multiprocessor (Status tab page)

[3-55](#)

opened by default when

dotprodc.exe is loaded [3-11](#)

Output [3-7](#), [3-8](#), [3-11](#)

Profile [3-17](#), [3-18](#), [3-34](#), [3-35](#)

Statistical Profiling [3-48](#)

Write Count, defined [3-18](#)