|  |  |
| --- | --- |
| **Program / Project Name:** | GDB |
| **Checklist / Template Completed by:** | TBD |
| **Date Completed:** | Click here to enter a date. |

**Debugging with GDB**

**(GDB User Manual)**

**The GNU Source-Level Debugger**

Tenth Edition, for GDB version 9.0.90.20200113-git

**Detailed Revision History**

|  |  |  |  |
| --- | --- | --- | --- |
| **Rev** | **Date** | **Editor(s)** | **Description of change** |
| 0.1 | 24-FEB-2020 | Sang-Gu Kang | Initial Draft |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

**Table of Contents**

[1 A Sample GDB Session 4](#_Toc33434931)

[2 Getting In and Out of GDB 4](#_Toc33434932)

[3 GDB Commands 4](#_Toc33434933)

[4 Running Programs Under GDB 4](#_Toc33434934)

[5 Stopping and Continuing 4](#_Toc33434935)

[6 Running programs backward 4](#_Toc33434936)

[7 Recording Inferior’s Execution and Replayng It 4](#_Toc33434937)

[8 Examining the Stack 4](#_Toc33434938)

[9 Examining Source Files 4](#_Toc33434939)

[10 Examining Data 4](#_Toc33434940)

[11 Debugging Optimized Code 4](#_Toc33434941)

[12 C Preprocessor Macros 4](#_Toc33434942)

[13 Tracepoints 4](#_Toc33434943)

[14 Debugging Programs That Use Overlays 4](#_Toc33434944)

[15 Using GDB with Different Languages 5](#_Toc33434945)

[16 Examining the Symbol Table 5](#_Toc33434946)

[17 Altering Execution 5](#_Toc33434947)

[18 GDB Files 5](#_Toc33434948)

[19 Specifying a Debugging Target 5](#_Toc33434949)

[20 Debugging Remote Programs 5](#_Toc33434950)

# A Sample GDB Session

# Getting In and Out of GDB

# GDB Commands

# Running Programs Under GDB

# Stopping and Continuing

# Running programs backward

# Recording Inferior’s Execution and Replayng It

# Examining the Stack

# Examining Source Files

# Examining Data

# Debugging Optimized Code

# C Preprocessor Macros

# Tracepoints

# Debugging Programs That Use Overlays

# Using GDB with Different Languages

# Examining the Symbol Table

# Altering Execution

# GDB Files

# Specifying a Debugging Target

# Debugging Remote Programs