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GDB Übersicht
=====
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http://hhoegl.informatik.hs-augsburg.de\
/sysprog/gdb_anleitung/quickref{.txt,.pdf}

Optionen
--tui          Text user interface
-x <gdbscript> Read cmds from file
-iex "set auto-load safe-path /"

Startup file: ./gdbinit, ~/.gdbinit

C-L   Bildschirm neu zeichnen
C-x 2  Switch layouts
C-x 1
^V    Assembler Fenster auf/ab

RET   Wiederhole vorheriges Kommando
s, si Zeile ausführen (step into fct)
n, ni Zeile ausführen (next line)
q     Quit

run [args] Von Anfang an ausführen
c      Ab brkpt ausführen (continue)
C-c    Programm stoppen (= Strg-C)

b      _start
b      26
b      main.s:26
b      *<addr>
b      funktionl
b      L1 if $eax == 1000
info b      Breakpoint list
del <nr>    Delete breakpoint
dis <nr>    disable
en <nr>     enable
until <nr> run until br <nr>
cond <nr> <cond> Set condition
b L1 if <cond> | Brkpt with condition
commands      | and command list
...           |
end           |

commands <nr> | Commands for brkpt <nr>
...           |
end           |

| clear          delete brkpts at pos
| watch expr    Watchpoint
| p $eax
| p/x $eax
| p var1
| p/x var1
| p/a var      # address
| p/t var      # binary ("two")
| p fct::locvar
| set $eax = 42
| set variable var1 = 43
| set var1 = 43
| p &var1      # address of
| set {int}0x80490a7 = 0xAFFE
| whatis var1
| ptype var1
|
| str1: .asciz "ABC" # data
| p str1
| p/x str1
| p/x &str1
| p/x &str1
| x/s &str1
| x/4c &str1
| set (0x80490a7 + 1) = 'm'
|
| array: .long 3, 67, 34, 12, 0
| p array@5
| p {int[6]} &array
| set *(unsigned int *)0x804909e = 18
| x/4xw &array
|
| .lcomm buffer, 256 # bss
| p buffer
| p buffer@256
| p (char[256]) buffer
| set {int} (&buffer+3) = 2017
| x/8xw &buffer
| x/32cb &buffer
|
| disp expr    Set display
| info disp
| undisp       Undisplay
|
| __argc, argv__
| p $esp
| p/x *(int*)$esp

| x/s *(char**)( $esp+4) # prog name
| x/s {char*}( $esp+4)
| x/s *(char**)( $esp+8) # arg1
|
| # ./gdbinit
| set confirm off
| set pagination off
| set history save on # .gdb_history
| set logging file gdb_log.txt
| set logging on
| tui enable
| layout regs
| winheight src +3
| winheight regs 7
| set prompt (gdb)
| file main
| br _start
| run
|
| source <file>
|
| help info
| info program|functions|stack|frame|
|         scope|variables|registers|breakpoints|
|         address
|
| call address
| finish
|
| disassemble
|
| load # flash microcontroller
|
| show args
|
| Mehr Info
| - http://www.unknownroad.com/rtfm/gdbtut/
| - https://www.gnu.org/software/gdb/documenta

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