

File	Description	Topics
hello.s	A small "Hello World" program	Instructions: li and la. System calls built in to MARS: print_string and exit.
basics.s	The basics of MIPS assembly	Instructions: li, la, lw, add, addi, sw and move. System calls: print_string, print_int, print_char and exit. Assembler directives: .data, .text, .space, .word and .asciiz.
jump_and_branches.s	Unconditional and conditional branches	Instructions: j, blt and bge. Control structures: if-then-else and infinite loop.
arrays.s	Allocation and usage of arrays	Data structures: array of integers and array of strings.

MIPS assembly examples

To help you refresh your MIPS assembly skills you are strongly encouraged to study this small collection of example programs. Each program demonstrates a small collection of features of the MIPS assembly language.

For each of the example files:

- Read the source code.
- Load the program in MARS and single step the program.
- Add your own experiments.