

# Microblaze C Cheat Sheet

## Initialization/Platform

Platform library	"platform.h"
Initialize platform	init_platform()
Clean up platform	cleanup_platform()

## UART

UART I/O library	<stdio.h>
Print string	print( <i>s</i> )
Print number as hex	putnum( <i>n</i> )
Small printf function.	xil_printf("format", <i>arg</i> <sub>1</sub> ,...)
Large printf function	printf("format", <i>arg</i> <sub>1</sub> ,...)
Large scanf function	scanf("format", & <i>name</i> <sub>1</sub> ,...)

## General Purpose I/O

Parameters library	"xparameters.h"
Input-output library	"xiomodule.h"
Input and output type.	XIOModule <i>gpiOrGpo</i>
Initialize GPIO	XIOModule_Initialize(& <i>gpiOrGpo</i> , XPAR_IOMODULE_0_DEVICE_ID)
Start GPIO	XIOModule_Start(& <i>gpiOrGpo</i> )
Read from GPI	XIOModule_DiscreteRead(& <i>gpi</i> , <i>gpiNum</i> )
Write data to GPO	XIOModule_DiscreteWrite(& <i>gpo</i> , <i>gpoNum</i> , <i>data</i> )

## Tcl Console Commands

Get TCL commands	source ipcore_dir/microblaze_mcs_setup.tcl
Update bitstream	microblaze_mcs_data2mem workspace/sdk-program/ Debug/sdk-program.elf

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