{

"patcher" : {

"fileversion" : 1,

"appversion" : {

"major" : 7,

"minor" : 3,

"revision" : 5,

"architecture" : "x86",

"modernui" : 1

}

,

"rect" : [ 34.0, 78.0, 1143.0, 735.0 ],

"bglocked" : 0,

"openinpresentation" : 0,

"default\_fontsize" : 12.0,

"default\_fontface" : 0,

"default\_fontname" : "Arial",

"gridonopen" : 1,

"gridsize" : [ 15.0, 15.0 ],

"gridsnaponopen" : 1,

"objectsnaponopen" : 1,

"statusbarvisible" : 2,

"toolbarvisible" : 1,

"lefttoolbarpinned" : 0,

"toptoolbarpinned" : 0,

"righttoolbarpinned" : 0,

"bottomtoolbarpinned" : 0,

"toolbars\_unpinned\_last\_save" : 0,

"tallnewobj" : 0,

"boxanimatetime" : 200,

"enablehscroll" : 1,

"enablevscroll" : 1,

"devicewidth" : 0.0,

"description" : "",

"digest" : "",

"tags" : "",

"style" : "",

"subpatcher\_template" : "",

"boxes" : [ {

"box" : {

"id" : "obj-47",

"maxclass" : "newobj",

"numinlets" : 1,

"numoutlets" : 0,

"patching\_rect" : [ 454.0, 202.0, 57.0, 22.0 ],

"style" : "",

"text" : "print raw"

}

}

, {

"box" : {

"id" : "obj-46",

"maxclass" : "message",

"numinlets" : 2,

"numoutlets" : 1,

"outlettype" : [ "" ],

"patching\_rect" : [ 454.0, 260.0, 50.0, 22.0 ],

"style" : "",

"text" : "50 52"

}

}

, {

"box" : {

"id" : "obj-44",

"maxclass" : "message",

"numinlets" : 2,

"numoutlets" : 1,

"outlettype" : [ "" ],

"patching\_rect" : [ 354.5, 163.0, 50.0, 22.0 ],

"style" : "",

"text" : "0"

}

}

, {

"box" : {

"id" : "obj-38",

"maxclass" : "message",

"numinlets" : 2,

"numoutlets" : 1,

"outlettype" : [ "" ],

"patching\_rect" : [ 454.0, 298.0, 50.0, 22.0 ],

"style" : "",

"text" : "\"24\""

}

}

, {

"box" : {

"id" : "obj-36",

"maxclass" : "message",

"numinlets" : 2,

"numoutlets" : 1,

"outlettype" : [ "" ],

"patching\_rect" : [ 454.0, 344.0, 50.0, 22.0 ],

"style" : "",

"text" : "24"

}

}

, {

"box" : {

"id" : "obj-34",

"maxclass" : "message",

"numinlets" : 2,

"numoutlets" : 1,

"outlettype" : [ "" ],

"patching\_rect" : [ 454.0, 401.0, 50.0, 22.0 ],

"style" : "",

"text" : "5"

}

}

, {

"box" : {

"id" : "obj-32",

"maxclass" : "newobj",

"numinlets" : 1,

"numoutlets" : 1,

"outlettype" : [ "" ],

"patching\_rect" : [ 256.0, 298.0, 73.0, 22.0 ],

"style" : "",

"text" : "fromsymbol"

}

}

, {

"box" : {

"id" : "obj-31",

"maxclass" : "newobj",

"numinlets" : 3,

"numoutlets" : 1,

"outlettype" : [ "int" ],

"patching\_rect" : [ 256.0, 260.0, 40.0, 22.0 ],

"style" : "",

"text" : "itoa"

}

}

, {

"box" : {

"id" : "obj-30",

"maxclass" : "slider",

"numinlets" : 1,

"numoutlets" : 1,

"outlettype" : [ "" ],

"parameter\_enable" : 0,

"patching\_rect" : [ 256.0, 399.5, 155.0, 25.0 ],

"style" : ""

}

}

, {

"box" : {

"id" : "obj-28",

"maxclass" : "newobj",

"numinlets" : 6,

"numoutlets" : 1,

"outlettype" : [ "" ],

"patching\_rect" : [ 256.0, 344.0, 112.0, 22.0 ],

"style" : "",

"text" : "scale 0 1023 0 255"

}

}

, {

"box" : {

"id" : "obj-25",

"knobcolor" : [ 1.0, 1.0, 1.0, 1.0 ],

"maxclass" : "slider",

"numinlets" : 1,

"numoutlets" : 1,

"orientation" : 2,

"outlettype" : [ "" ],

"parameter\_enable" : 0,

"patching\_rect" : [ 256.0, 16.0, 18.0, 134.0 ],

"size" : 255.0,

"style" : ""

}

}

, {

"box" : {

"fontname" : "Arial",

"fontsize" : 9.0,

"id" : "obj-2",

"maxclass" : "comment",

"numinlets" : 1,

"numoutlets" : 0,

"patching\_rect" : [ 329.0, 111.0, 101.0, 17.0 ],

"style" : "",

"text" : "get a list of serial ports"

}

}

, {

"box" : {

"fontname" : "Arial",

"fontsize" : 9.0,

"id" : "obj-4",

"maxclass" : "comment",

"numinlets" : 1,

"numoutlets" : 0,

"patching\_rect" : [ 136.5, 298.0, 112.0, 17.0 ],

"style" : "",

"text" : "Convert ASCII to symbol"

}

}

, {

"box" : {

"fontname" : "Arial",

"fontsize" : 9.0,

"id" : "obj-5",

"maxclass" : "comment",

"numinlets" : 1,

"numoutlets" : 0,

"patching\_rect" : [ 136.5, 270.0, 112.0, 17.0 ],

"style" : "",

"text" : "Convert integer to ASCII"

}

}

, {

"box" : {

"fontname" : "Arial",

"fontsize" : 9.0,

"id" : "obj-9",

"maxclass" : "newobj",

"numinlets" : 2,

"numoutlets" : 2,

"outlettype" : [ "", "" ],

"patching\_rect" : [ 256.0, 228.0, 55.0, 19.0 ],

"style" : "",

"text" : "zl group 4"

}

}

, {

"box" : {

"fontname" : "Arial",

"fontsize" : 9.0,

"id" : "obj-10",

"maxclass" : "newobj",

"numinlets" : 3,

"numoutlets" : 3,

"outlettype" : [ "bang", "bang", "" ],

"patching\_rect" : [ 256.0, 194.0, 59.0, 19.0 ],

"style" : "",

"text" : "select 13 10"

}

}

, {

"box" : {

"id" : "obj-11",

"maxclass" : "toggle",

"numinlets" : 1,

"numoutlets" : 1,

"outlettype" : [ "int" ],

"parameter\_enable" : 0,

"patching\_rect" : [ 187.0, 94.0, 15.0, 15.0 ],

"style" : ""

}

}

, {

"box" : {

"fontname" : "Arial",

"fontsize" : 9.0,

"id" : "obj-12",

"maxclass" : "newobj",

"numinlets" : 2,

"numoutlets" : 1,

"outlettype" : [ "bang" ],

"patching\_rect" : [ 187.0, 116.0, 51.0, 19.0 ],

"style" : "",

"text" : "metro 100"

}

}

, {

"box" : {

"fontname" : "Arial",

"fontsize" : 9.0,

"id" : "obj-13",

"maxclass" : "message",

"numinlets" : 2,

"numoutlets" : 1,

"outlettype" : [ "" ],

"patching\_rect" : [ 291.0, 111.0, 32.0, 19.0 ],

"style" : "",

"text" : "print"

}

}

, {

"box" : {

"fontname" : "Arial",

"fontsize" : 9.0,

"id" : "obj-14",

"maxclass" : "newobj",

"numinlets" : 1,

"numoutlets" : 2,

"outlettype" : [ "int", "" ],

"patching\_rect" : [ 256.0, 163.0, 62.0, 19.0 ],

"style" : "",

"text" : "serial d 9600"

}

}

, {

"box" : {

"fontname" : "Arial",

"fontsize" : 9.0,

"id" : "obj-15",

"linecount" : 2,

"maxclass" : "comment",

"numinlets" : 1,

"numoutlets" : 0,

"patching\_rect" : [ 3.0, 116.0, 148.0, 27.0 ],

"style" : "",

"text" : "Read serial input buffer every 10 milliseconds"

}

}

, {

"box" : {

"fontname" : "Arial",

"fontsize" : 9.0,

"id" : "obj-17",

"maxclass" : "comment",

"numinlets" : 1,

"numoutlets" : 0,

"patching\_rect" : [ 136.5, 67.0, 63.0, 17.0 ],

"style" : "",

"text" : "Start"

}

}

],

"lines" : [ {

"patchline" : {

"destination" : [ "obj-9", 0 ],

"source" : [ "obj-10", 2 ]

}

}

, {

"patchline" : {

"destination" : [ "obj-9", 0 ],

"midpoints" : [ 265.5, 216.0, 265.5, 216.0 ],

"source" : [ "obj-10", 0 ]

}

}

, {

"patchline" : {

"destination" : [ "obj-12", 0 ],

"source" : [ "obj-11", 0 ]

}

}

, {

"patchline" : {

"destination" : [ "obj-14", 0 ],

"source" : [ "obj-12", 0 ]

}

}

, {

"patchline" : {

"destination" : [ "obj-14", 0 ],

"midpoints" : [ 300.5, 158.0, 265.5, 158.0 ],

"source" : [ "obj-13", 0 ]

}

}

, {

"patchline" : {

"destination" : [ "obj-10", 0 ],

"order" : 1,

"source" : [ "obj-14", 0 ]

}

}

, {

"patchline" : {

"destination" : [ "obj-47", 0 ],

"order" : 0,

"source" : [ "obj-14", 0 ]

}

}

, {

"patchline" : {

"destination" : [ "obj-14", 0 ],

"order" : 1,

"source" : [ "obj-25", 0 ]

}

}

, {

"patchline" : {

"destination" : [ "obj-44", 1 ],

"order" : 0,

"source" : [ "obj-25", 0 ]

}

}

, {

"patchline" : {

"destination" : [ "obj-30", 0 ],

"order" : 1,

"source" : [ "obj-28", 0 ]

}

}

, {

"patchline" : {

"destination" : [ "obj-34", 1 ],

"order" : 0,

"source" : [ "obj-28", 0 ]

}

}

, {

"patchline" : {

"destination" : [ "obj-25", 0 ],

"midpoints" : [ 265.5, 438.0, 632.0, 438.0, 632.0, 5.0, 265.5, 5.0 ],

"source" : [ "obj-30", 0 ]

}

}

, {

"patchline" : {

"destination" : [ "obj-32", 0 ],

"order" : 1,

"source" : [ "obj-31", 0 ]

}

}

, {

"patchline" : {

"destination" : [ "obj-38", 1 ],

"order" : 0,

"source" : [ "obj-31", 0 ]

}

}

, {

"patchline" : {

"destination" : [ "obj-28", 0 ],

"order" : 1,

"source" : [ "obj-32", 0 ]

}

}

, {

"patchline" : {

"destination" : [ "obj-36", 1 ],

"order" : 0,

"source" : [ "obj-32", 0 ]

}

}

, {

"patchline" : {

"destination" : [ "obj-31", 0 ],

"order" : 1,

"source" : [ "obj-9", 0 ]

}

}

, {

"patchline" : {

"destination" : [ "obj-46", 1 ],

"order" : 0,

"source" : [ "obj-9", 0 ]

}

}

],

"dependency\_cache" : [ ],

"autosave" : 0

}

}