

Opening a Port

To open a port and associate a name with it, use the **PPCOpen** function. The following program illustrates how you use the **PPCOpen** function to open a port. In this listing, the name is "Inside Macintosh" and the port type string is "Example". The location name is `<object string>PPC`. For example: `@<AppleTalk zone>`.

```
// Opening a PPC port
// Assuming inclusion of MacHeaders
#include <PPCToolBox.h>
#include <Script.h>
#include <String.h>

// Prototype your function like this prior to calling it
OSErr MyPPCOpen(PPCPortRefNum *, Boolean *);
OSErr MyPPCOpen(PPCPortRefNum *thePortRefNum, Boolean
                *nbpRegisterFlag)

{
    PPCOpenPBRec    thePPCOpenPBRec;
    PPCPortRec      thePPCPortRec;
    LocationNameRec  theLocationNameRec;
    OSErr            err;

    // nameScript and name should be resources to allow easy localization
    thePPCPortRec.nameScript = smRoman; // Roman script

    // name is a pascal style string, need to cast it to call strcpy
    strcpy((char *)thePPCPortRec.name, "Inside Macintosh");
    // convert back to Pascal string
    CtoPstr(thePPCPortRec.name);

    // the port type should always be hard-coded to allow the
    // application to find ports of a particular type even after
    // the name is localized
    thePPCPortRec.portKindSelector = ppcByString;

    // name is a pascal style string, need to cast it to call strcpy
    strcpy((char *)thePPCPortRec.u.portTypeStr, "Example");
    CtoPstr(thePPCPortRec.u.portTypeStr);

    theLocationNameRec.locationKindSelector = ppcNBPTYPELocation;

    // nbpType is a pascal style string, need to cast it to call strcpy
    strcpy((char *)theLocationNameRec.u.nbpType, "PPC Example");
    CtoPstr(theLocationNameRec.u.nbpType);

    thePPCOpenPBRec.serviceType = ppcServiceRealTime;
    thePPCOpenPBRec.resFlag = 0; // must be 0 for 7.0+
    thePPCOpenPBRec.portName = &thePPCPortRec;
    thePPCOpenPBRec.locationName = &theLocationNameRec;

    // make this a visible entity on the network
    thePPCOpenPBRec.networkVisible = TRUE;
```

```
err = PPCOpen(&thePPCOpenPBRec, FALSE); // synchronous
*thePortRefNum = thePPCOpenPBRec.portRefNum;
*nbpRegisterFlag = thePPCOpenPBRec.nbpRegistered;
return err;
}
```

The **PPCOpen** function opens a port with the port name and location name specified in the name and location fields of the parameter block. When the **PPCOpen** function completes execution, the portRefNum field returns the port reference number. You can use the port reference number in the **PPCInform**, **PPCStart**, **StartSecureSession**, and **PPCClose** functions to refer to the port you have opened.