

**DSPPParamBlock** structure

#include &lt;ADSP.h&gt;

```

typedef struct DSPPParamBlock {
    QElem          *qLink;           Size Offset    Description
                                4      0      Address of next queue entry;
                                0=end of queue
    short          qType;           2      4      Queue type
    short          ioTrap;          2      6      Routine trap
    Ptr            ioCmdAddr;       4      8      Routine address
    ProcPtr        ioCompletion;    4      12     Completion routine
    OSErr          ioResult;        2      16     Result code
    StringPtr      ioNamePtr;       4      18     Used only for dspOpen
    short          ioVRefNum;       2      22     Volume reference number
    short          ioCRefNum;       2      24     Driver reference number
    short          csCode           2      26     Primary command code
    long           qStatus;         4      28     Reserved for ADSP
    short          ccbRefNum;       2      32     CCBreference number
    union {
        TRinitParams  initParams;   26     34     dspInit, dspCLInit
        TRopenParams  openParams;   34     34     dspOpen, dspCLListen,
                                dspCLDeny
        TRcloseParams closeParams;   2      34     dspClose, dspRemove
        TRioParams    ioParams;     10     34     dspRead, dspWrite
        TRattnParams  attnParams;   10     34     dspAttention
        TRstatusParams statusParams; 12     34     dspStatus
        TRoptionParams optionParams; 6      34     dspOptions
        TRnewcidParams newCID;      2      34     dspNewCID
    } u;

} DSPPParamBlock;                                134

typedef DSPPParamBlock *DSPPParamBlockPtr ;

```

Notes: The .DSP parameter block, defined by the **DSPPParamBlock** data type, is a variant parameter block for the **PBControl** function.

The qLink, qType, ioTrap, ioCmdAddr, ioNamePtr, and ioVRefNum fields are filled in by the **Device Manager**; your application should not have to set or read these fields. The ioResult field returns the result of the function. If you call the routine asynchronously, the **Device Manager** sets this field to 1 as soon as you call the routine, and it changes the field to the actual result code when the routine completes execution. The ioCompletion field is a pointer to a completion routine that you can provide; the **Device Manager** calls your completion routine when it completes execution of the **PBControl** function. If you are not providing a completion routine, specify NIL for this field.

The ioCRefNum field is returned by the **OpenDriver** function. You must specify this number every time you call **The .DSP Driver**.

The csCode field specifies the command to be executed. You must fill in this field before calling the **PBControl** function. You can use the following constants as values for the csCode field:

**ADSP** routine selectors

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<u>dspInit</u>	= 255;	{create a new connection end}
<u>dspRemove</u>	= 254;	{remove a connection end}
<u>dspOpen</u>	= 253;	{open a connection}
<u>dspClose</u>	= 252;	{close a connection}
<u>dspCLInit</u>	= 251;	{create a connection listener}
<u>dspCLRemove</u>	= 250;	{remove a connection listener}
<u>dspCLListen</u>	= 249;	{post a listener request}
<u>dspCLDeny</u>	= 248;	{deny an open-connection request}
<u>dspStatus</u>	= 247;	{get status of connection end}
<u>dspRead</u>	= 246;	{read data from the connection}
<u>dspWrite</u>	= 245;	{write data on the connection}
<u>dspAttention</u>	= 244;	{send an attention message}
<u>dspOptions</u>	= 243;	{set connection end options}
<u>dspReset</u>	= 242;	{forward reset the connection}
<u>dspNewCID</u>	= 241;	{generate a cid for a connection end}

The qStatus field is reserved for use by **ADSP**. The ccbRefNum field is the reference number of the **CCB**. The **CCB** reference number is returned by **ADSP** in response to the dspInit routine. You must specify this number as a parameter to every .DSP driver routine you call subsequently. The remaining fields are used only for specific routines; each of these fields is described in **.DSP Driver Routines**.