

Appendix F

MetaWINDOW Font File Structure

The following is a summary of the bitmap and filled-outline font file structures used by MetaWINDOW. A more detailed description of the MetaWINDOW font system and font/icon editing utilities is provided in the *FontWINDOW Reference Manual*.

```

/* *****
 * GRFONTS.H - MetaWINDOW FONT FILE RECORD DATA STRUCTURE *
 * Copyright (c) 1987 Metagraphics Software Corporation *
 * ***** */

typedef struct      /* FONT DATA RECORD */
{
    char    fontVer;      /* Font format version number (=2) */
    char    fontRev;     /* Font style revision designation */
    char    nameLen;     /* Font name length (0-38) */
    char    fontName[46]; /* Font Name (ASCII) */
    char    fontNull;   /* (extra terminating null) */
    char    fontSign[8]; /* "METAFONT" signature */
    long    fontSize;   /* Buffer size needed to hold font */
    int     fontMin;    /* Minimum character code */
    int     fontMax;    /* Maximum character code */
    char    ptSizeA[2]; /* Point Size (ASCII) */
    int     ptSizeB;    /* Point Size (binary) */
    int     family;     /* Font style family */
    int     fontClass;  /* Device class */
    int     fontFlags;  /* Font flags */
    long    fontColor[2]; /* Font Character & bkground colors */
    char    minChar;    /* Minimum ASCII character code */
    char    maxChar;    /* Maximum ASCII character code */
    int     chWidth;    /* Fixed space character width */
    int     chHeight;   /* Character height */
    int     chKern;     /* Fixed space character offset */
    int     ascent;     /* Ascent */
    int     descent;   /* Descent */
    int     leading;    /* Leading */
    int     fxSpace;    /* Fixed character spacing */
    int     chCenter[2]; /* Icon or Marker center (X,Y) */
    int     chAngle;    /* Italicise slant angle */
    int     chUnder;    /* recommended txUnder setting */
    int     chScore;    /* recommended txScore setting */
}

```

```

long    locTbl;      /* offset to locTable */
long    ofwdTbl;    /* offset to ofwdTable */
long    kernTbl;    /* offset to kernTable */
long    sizeTbl;    /* offset to size/rotation tbl(strk) */
long    bmapTbl;    /* offset to font bitmap data record */
long    rowTbl;     /* offset to bitmap rowTable(s) */
long    fontTbl;    /* offset to font bitImage/nodes tbl */
int     fontRsvd[59]; /* (reserved for future use) */
} fontRec;

```

```

typedef struct      /* Offset/Width Table Entry */
{
    char    wid;      /* Character Width */
    char    ofs;      /* Character Offset */
} ofswid;

```

```

#define c_fontVer    0 /* "GetFontField" Index Definitions */
#define c_fontName   2
#define c_fontSign   50
#define c_fontSize   58
#define c_fontMin    62
#define c_fontMax    64
#define c_ptSizeA    66
#define c_ptSizeB    68
#define c_family     70
#define c_fontClass  72
#define c_fontFlags  74
#define c_fontColor  76
#define c_minChar    84
#define c_chWidth    86
#define c_chHeight   88
#define c_chKern     90
#define c_ascent     92
#define c_decent     94
#define c_leading    96
#define c_fxSpace    98
#define c_chCenter  100
#define c_chAngle    104
#define c_chUnder    106
#define c_chScore    108
#define c_locTbl     110
#define c_ofwdTbl    114
#define c_kernTbl    118
#define c_sizeTbl    122
#define c_bmapTbl    126
#define c_rowTbl     130
#define c_fontTbl    134

```

```

/* End of file - GRFONTS.H */

```