

# Applixware ELF Header Files

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## ELF Header Files

When you are using ELF to extend the features that come with *Applixware*, you will need to access the data structures that contain application information. In many cases, this information is structured into formats. In addition, ELF makes considerable use of define constants. You will find this information in the following files. These files, normally located in the `SYSTEM_DIR@()+"/elf"`, should be included within your program.

[app ids .am](#)

[ax400 .am](#)

[ch type .am](#)

[chart .am](#)

[datetim .am](#)

[dbase .am](#)

[dialog .am](#)

[dlgpoke .am](#)

[elfpen .am](#)

[errors .am](#)

[fileinf .am](#)

[fonts .am](#)

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[menubar .am](#)

[spsheet .am](#)

[table .am](#)

[windows .am](#)

[wp .am](#)

## app\_ids.am

```
,
' Applixware application ids.
,
define APP#DLGKEY_          0    /* Dialog Key Bindings */
define APP#WORDS_          1    /* Word Processor */
define APP#GRAPHICS_       2    /* Graphics Editor */
define APP#SPREADSHEET_    3    /* Spreadsheet */
define APP#MACRO_EDIT_     4    /* Macro editor */
define APP#MAIN_MENU_      5    /* Main Menu */
define APP#DIR_DISP_       6    /* Directory displayer */
define APP#DLG_EDIT_       8    /* (old) Dialog editor */
define APP#BIT_EDIT_       9    /* Bitmap editor */
define APP#QUERY_         10    /* Data */
define APP#VIEWER_        11    /* Tutorial displayer */
define APP#EQUATION_      12    /* Equation editor */
define APP#HTML_          14    /* HTML Authoring System */
define APP#SENDMAIL_      17    /* Send Mail */
define APP#INBOX_         19    /* Inbox */
define APP#DLGED_         20    /* Dialog editor */
define APP#DLGED_DEFS_    21    /* Dialog editor defaults-edit */
define reserved_          22
define APP#ARCADE_        23    /* Builder Main Window */
define APP#BUILDER_       23    /* Applixware Builder */
define APP#SS_PREVIEW_    24    /* spreadsheet preview window **/
define APP#OMSEND_        25    /* OpenMail Send dialog(s) */
define APP#OMINBOX_       26    /* OpenMail Inbox */
define APP#DLGED_COLR_    28    /* Dialog editor color palette edit */
define APP#METHOD_EDIT_   29    /* Object Method editor */
define APP#OMREAD_        30    /* OpenMail Read dialog(s) */
define APP#SS_PG_         31    /** ss in the presentation mode **/
define APP#MAIL_          32    /** mail **/
define APP#CHART_         33    /** charts **/
define APP#SLIDE_SHOW_    34    /** Applixware slide show **/

define APP#HELP_          50    /* help */
define APP#TUTOR_         52    /* tutorials */
define APP#BOOK_VIEW_     53    /* Book viewer (words) window */
define APP#BOOK_CONT_     54    /* Book contents dialog window */

,
' Names of full window apps as returned from TASK_LIST@
```

```

define APPNAME#WP_ "Words_"
define APPNAME#GE_ "Graphics_"
define APPNAME#SS_ "Spreadsheets_"
define APPNAME#CE_ "Macros_"
define APPNAME#IC_ "Icons_"
define APPNAME#EQ_ "Equations_"
define APPNAME#DATA_ "DATA_"
define APPNAME#AB_ "ApplixwareBuilder_"
define APPNAME#XX_ "Internal_" /* all others */
define APPNAME#INB_ "AM_INBOX_DLG@"
define APPNAME#MLS_ "MAIL_SEND_DLG@"
define APPNAME#MLF_ "MAIL_FORWARD_DLG@"
define APPNAME#MLR_ "MAIL_REPLY_DLG@"
define APPNAME#HTML_ "HTML_Authoring_"

```

## axopn\_.am

This file contains formats and defined constants used by the Applixware File -> Open dialog boxes.

```

#define POKE_OPN_SORT 10451
#define POKE_OPN_ACTION 10452
#define POKE_OPN_CHANGESEL 10453
#define POKE_OPN_JUMPDIR 10454

```

' flags to determine what tests are performed by the Open dialog

```

#define OPN#TEST_NONE 0x00
#define OPN#TEST_PROMOTE 0x01
#define OPN#TEST_CANREAD 0x02
#define OPN#TEST_VERSCHK 0x04
#define OPN#TEST_EXISTS 0x08
#define OPN#TEST_ALL -1

```

```

#define DIRLST#NO_SORT 0
#define DIRLST#DATE_ASC 2
#define DIRLST#DATE_DSC 3
#define DIRLST#NAME_ASC 4
#define DIRLST#NAME_DSC 5

```

```

#define dir_icon                "dir16x16"
#define html_icon              "html"

#define RS                      30

#define amddate_fmt            DT#D_SLASH + DT#T_12HR
#define eudate_fmt            DT#D_EURSLASH + DT#T_12HR

format filespec_info_
    path,
    filename,
    wildcard

format openfile_info_
    path,
    read_only,
    url,
    format url_response_response,
    format dialog_box_dbox

format open_ev_
    ev_typed_file,
    ev_directory,
    ev_filesel,
    ev_showdirs,
    ev_read_only,
    ev_resize,
    ev_post,
    ev_open_file,
    ev_file_dbclick,
    ev_poked,
    ev_open_dir

format axopn_extents_
    text,
    extn

```

## axurl\_.am

This file contains constants and formats required by the Applixware URL fetcher.

```
,
' format returned by url fetcher
,
    format url_response_
        url_code,
        url_phrase,
        url_headers,
        url_data
,
' format for default url display color
,
    format url_color_
        name,
        red,
        green,
        blue
,
' format for a proxy entry specification
,
    format proxy_ent_
        host,
        port
,
' defined constants for url_code, returned by url fetcher
,
#define URL#STATUS_OK                200
#define URL#STATUS_CREATED           201
#define URL#STATUS_ACCEPTED         202
#define URL#STATUS_PARTIAL          203
#define URL#STATUS_NO_CONTENT       204
#define URL#STATUS_MULTI_CHOICE     300
#define URL#STATUS_MOVED_PERM       301
#define URL#STATUS_MOVED_TEMP       302
#define URL#STATUS_NOT_MODIFIED     304
#define URL#STATUS_BAD_REQUEST      400
#define URL#STATUS_UNAUTHORIZED     401
#define URL#STATUS_PAYMENTRQD       402
#define URL#STATUS_FORBIDDEN        403
#define URL#STATUS_NOT_FOUND        404
#define URL#STATUS_SERVER_ERROR     500
```

```

#define URL#STATUS_NOT_IMPLEMENTED      501
#define URL#STATUS_BAD_GATEWAY         502
#define URL#STATUS_NO_SERVICE          503

```

## **builder\_.am**

```

,
' form types
,
define DBOX_TYPE#NORMAL_ 0
define DBOX_TYPE#MAIN_   1
define DBOX_TYPE#RESPONSE_ 2
define DBOX_TYPE#MULTIPLE_ 3
,
' data source types
,
define DATA_SOURCE#NONE      0
define DATA_SOURCE#MACRO     1
define DATA_SOURCE#DATA_SET  2
define DATA_SOURCE#REALTIME  3
,
' font attr types
,
define FONT#FACE 1
define FONT#SIZE 2
define FONT#BOLD 3
define FONT#ITAL 4
,
' profiles
,
define BUILDER#EXTERNAL_EDITOR_ "builderEditor"
define BUILDER#DIRECTORY_       "builderDir"
define BUILDER#OBJECT_SERVER_   "builderObjectServer"
,
' resolved external link
,
define FFLAGS#ELF_DATA_ 0 ' read as elf data
define FFLAGS#TEXT_     1 ' read as ascii

```



```

define FFLAGS#IMAGE_          2          ' read as binary
define FFLAGS#MACRÖS_         3          ' read as ascii file
define FFLAGS#OTHER_          4          ' read as binary
define FFLAGS#OBJCLASS_       5          ' read as class library doc
define FFLAGS#LIBOBJECT_      6          ' read as object
                                       library doc

```

/\* builder specific mail definitions \*/

```

#define          ML#TO_RECIP          0
#define          ML#CC_RECIP          1
#define          ML#BC_RECIP          2

#define          ML#IS_URGENT    0x01
#define          ML#IS_CERTIFIED 0x02
#define          ML#REPLY_RQST  0x04
#define          ML#OBOX_COPY   0x08
#define          ML#ENCRYPT      0x10

```

/\* Description of real time record field \*/

```

format field_item@
    field_name,          ' name of the field
    display_converter,  ' display converter macro/method
    field_label,        ' label on field (not used)
    publish_converter   ' publish converter macro/method

```

/\* Description of Font attributes info \*/

```

format font_attrs_info@
    font_name,          ' name of the font Times, Helvetica,...
    font_size,          ' size in points 8,10,12,14,18,24,36
    bold,               ' TRUE/FALSE
    italic,             ' TRUE/FALSE
    shadow              ' not used

```

```

/*
 * builder specific mail formats
 */

```

```

format msg_recips@

```

```

    recip_name,
    recip_type

format msg@
    format arrayof msg_recips@ recip_s,
    subject,
    body,
    afiles,
    attrs,
    reply_text

/* Definition of an external/localized link */

format localized_item_
    filename,          ' filename
    fflags,            ' FFLAGS#ELF_DATA_ ...
    content            ' file content

/*
 * State of object variable
 */
format object_local_format@
    name,
    value

format elf_event@
    type,
    info

/*
 * Object format in disk file
 */
format object_format@
    name,
    inherits_from,
    source,            ' source code - null if turbo version
    exec_image,       ' null - exec image if turbo version
    format arrayof object_format@ children,
    format arrayof object_local_format@ locals,
    class_libraries, ' list of localized and links of class libraries used
    resources,        ' list of localized and links of resource files
    object_library_pathname,' if it is a library object, its library name
    lib_obj_name      ' if it is a library object, its name in library

```

```
/*
 * format of Object class library
 */
```

```
format object_class@
    class_name,           ' name of the class
    inherits_from,       ' this class inherits from
    source,               ' array of source strings
    exec_image,          ' elf execution image
    external_methods_file ' name of the methods file
```

```
format builder_session_vars@
    doc_name,             ' name of the document
    path_name,            ' absolute path name
    created_sw,           ' creation software
    created_sw_version,   ' creation software version
    created_date,         ' date of creation
    created_user,         ' creation user name
    updated_sw,           ' updated software
    updated_sw_version,   ' updated software version
    updated_date,         ' date of updation
    updated_user,        ' updated user name
    grp_access,           ' group access - 1-readonly
                        2-readwrite
    all_access,           ' all access - 1-readonly 2-readwrite
    orig_rev,             ' original rev of doc before
                        conversion
    format afile_info fileinfo, ' encoding,revision,doctype,...
    not_used1,
    not_used2,
    not_used3,
    not_used4
```

```
/*
 * format of builder application saved on to disk (.ab)
 */
```

```
format builder_docinfo@
    revstamp,             ' current file format revision - now it is 0
    asc_header,           ' Used only by Applixware Source Code Control System
    not_used0,            ' future extension - not used
    not_used1,            ' future extension - not used
```

```

not_used2,          ' future extension - not used
not_used3,          ' future extension - not used
not_used4,          ' future extension - not used
doc_save_mode,     ' 1 if turbo (no source) - 0 otherwise
format arrayof localized_item_class_libraries, ' class
                                                         libraries

format arrayof localized_item_resources, ' resources
format object_format@ application, ' application itself
format arrayof localized_item_object_libraries, ' object libraries
format builder_session_vars@ session_vars,
object application_object, ' used internally
internal_use0,     ' used internally
internal_use1,     ' used internally
internal_use2,     ' used internally

/*
 * Builder Application distribution package format (.abd)
 */
format builder_distribution_docinfo@
  revstamp,
  asc_header,
  not_used0,
  not_used1,
  not_used2,
  not_used3,
  format arrayof localized_item_sub_applications, ' sub
                                                         application files
  format arrayof localized_item_object_libraries, ' object libraries
  format arrayof localized_item_class_libraries, ' class library
                                                         files used
  format arrayof localized_item_resources, ' bitmaps, macro
                                                         files used
  format localized_item_application, ' application file contents
  comments,
  format builder_session_vars@ session_vars,
  internal_use0,     ' used internally
  internal_use1,     ' used internally
  internal_use2,     ' used internally

/*
 * format of object class library saved on to disk (.cll)
 */
format class_library_docinfo@

```

```

revstamp,                ' current file format revision
asc_header,              ' Used by Applixware source code
                          control system
not_used0,               ' not used
not_used1,               ' not used
not_used2,               ' not used
not_used3,               ' not used
not_used4,               ' not used
doc_save_mode,          ' 0-normal, 1-turbo
format object_class@ library, ' library itself
comments,
format builder_session_vars@ session_vars,
format arrayof localized_item_class_libraries, ' class libraries
                                              it uses
format arrayof localized_item_resources,      ' any resources
                                              it uses
object class_object,    ' used internally
internal_use0,          ' used internally
internal_use1,          ' used internally
internal_use2           ' used internally

```

```
/*
```

```
* format for library object
```

```
*/
```

```
format object_library@
```

```

not_used0,
not_used1,
not_used2,
not_used3,
parent_class,
format object_format@ library,
format arrayof localized_item_object_libraries, ' other object
                                              libraries included
format arrayof localized_item_class_libraries, ' class libraries
format arrayof localized_item_resources,      ' resources
object libobj,
class_objs,
internal_use0,
internal_use1,
internal_use2

```

```
/*
```

```
* format for library object docinfo (.oll)
```

```
* (also used for cut/copy/paste of objects in browser)
```

```

*/
format object_library_docinfo@
    revstamp,                ' 1 - current file format revision
    asc_header,              ' Used by Applixware Source Code Control System
    doc_save_mode,          ' 0-normal, 1-turbo
    not_used0,               ' currently not used
    not_used1,               ' currently not used
    not_used2,               ' currently not used
    not_used3,               ' currently not used
    not_used4,               ' currently not used
    format arrayof object_library@ library_table,
    comments,
    format builder_session_vars@ session_vars,
    libobj_table,
    internal_use0,
    internal_use1,
    internal_use2
/*
* format for library object docinfo (.oll)
* (also used for cut/copy/paste of objects in browser)
*/
format object_library_docinfo_rev0@
    revstamp,                ' 0 - current file format revision
    asc_header,              ' Used by Applixware Source Code Control System
    doc_save_mode,          ' 0-normal, 1-turbo
    not_used0,               ' currently not used
    not_used1,               ' currently not used
    not_used2,               ' currently not used
    not_used3,               ' currently not used
    not_used4,               ' currently not used
    parent_class,            ' parent class name
    format object_format@ library,                                ' object description
    format arrayof localized_item_ object_libraries, ' other object
                                                                libraries included
    format arrayof localized_item_ class_libraries, ' class libraries
    format arrayof localized_item_ resources,          ' resources
    format builder_session_vars@ session_vars,
    object_library_object,
    class_library_objects,    ' instances of class_libraries
    internal_use0,
    internal_use1,
    internal_use2

```

## datetim\_.am

```
,
' This file contains information related to the date and time calls
,
format datetime_
    year,
    month,      '1-12
    day,        '1-31
    hour,       '0-23
    minute,     '0-59
    second,     '0-59
    fraction    '0<= fraction < 1

format date_time_array_
    second,     ' 0 - 59
    minute,    ' 0 - 59
    hour,      ' 0 - 23
    day,       ' 0 - 30
    month,     ' 0 - 11
    year,      ' 1988 ...
    weekday,   ' 0 - 6
    yearday,   ' 0 - 364
    is_dst     ' TRUE if hour value given in daylight savings time

,
' The following are possible mode arguments to the
' DATE_FORMAT_() call. To get a date format including time, add the
' time value. To get a date format including day of week, add the day of
' week value.
,
define DT#D_NONE      0      ' no date, just time or day of week
define DT#D_LETTER    1      ' e.g. February 14, 1984
define DT#D_ABBREV    2      ' e.g. Feb 14, 1984
define DT#D_MIL       3      ' e.g. 14 Feb 1984
define DT#D_SLASH     4      ' e.g. 2/14/84
define DT#D_DOT       5      ' e.g. 14.2.84 (used in Europe)
define DT#D_Y4DASH    6      ' yyyy-mm-dd e.g. 1985-02-14
define DT#D_Y2DASH    7      ' yy-mm-dd e.g. 85-02-14
define DT#D_Y4SPACE   8      ' yyyy mm dd e.g. 1985 02 14
define DT#D_Y2SPACE   9      ' yy mm dd e.g. 85 02 14
define DT#D_Y4        10     ' yyyymmdd e.g. 19850214
define DT#D_Y2        11     ' yymmdd e.g. 850214
define DT#D_EURSLASH  12     ' dd/mm/yy e.g. 14/02/85
```

```

define DT#D_DOTY4      13  ' 14.2.1984 (used in Europe)
define DT#D_MAILABRV  14  ' Feb 09, 1984
define DT#D_LETYR     15  ' February 1984
define DT#D_ABBYR     16  ' Feb 1984
define DT#D_ABB2YR    17  ' Feb 84
define DT#D_SLYR      18  ' 2/84 (1 leadng space if mo <10)
define DT#D_SP2YR     19  ' 84 02
define DT#D_SP4YR     20  ' 1984 02
'
' Time formats
'
define DT#T_NONE      0    ' no time text, used to get just date
define DT#T_12HR      100  ' e.g. 9:34 PM
define DT#T_12HB      200  ' e.g. 9:34PM
define DT#T_24HR      300  ' e.g. 21:32
define DT#T_DOT        400  ' e.g. 08.32
define DT#T_4DIGIT    500  ' e.g. 0832
define DT#T_24HRSS    600  ' e.g. 21:34:00
'
' Day of the Week formats
'
define DT#W_NONE      0    ' Don't show day of week.
define DT#W_BEG       1000 ' e.g. Tue <date and/or time>
define DT#W_END       2000 ' e.g. <date and/or time> Tue
define DT#W_FBEG      3000 ' e.g. Tuesday <date and/or time>
define DT#W_FEND      4000 ' e.g. <date and/or time> Tuesday

```

## ch\_type\_.am

```

define COLUMN          101
define COLUMN#STACKED 102
define COLUMN#HIDDEN  103
define COLUMN#YGRIDS  104
define COLUMN#LABELS  105
define COLUMN#LEAGUE  106
define COLUMN#3D       107
define COLUMN#3D#STACKED 108
define COLUMN#3D#XYZGRIDS 109
define COLUMN#3D#XYGRIDS 110

define BAR              201
define BAR#STACKED     202

```



define BAR#HIDDEN 203  
define BAR#YGRIDS 204  
define BAR#LABELS 205  
define BAR#LEAGUE 206  
define BAR#3D 207  
define BAR#3D#STACKED 208  
define BAR#3D#XYZGRIDS 209  
define BAR#3D#XYGRIDS 210

define STRATA 301  
define STRATA#XYGRIDS 302  
define STRATA#LABELS 303  
define STRATA#3D 304  
define STRATA#3D#XYGRIDS 305  
define STRATA#3D#LABELS 306

define LINE 401  
define LINE#L#AND#M 402  
define LINE#MARKER 403  
define LINE#L#AND#M#YGRIDS 404  
define LINE#L#AND#M#XYGRIDS 405  
define LINE#L#AND#M#YLOGGRIDS 406  
define LINE#HILO#1 407  
define LINE#HILO#2 408  
define LINE#HLCO#1 409  
define LINE#HLCO#2 410  
define LINE#CURVE 411  
define LINE#3D 412  
define LINE#3D#XYZGRIDS 413  
define LINE#3D#XZGRIDS 414  
define LINE#3D#YLOG 415

define PIE 501  
define PIE#LABELS#10 502  
define PIE#EXPLOSION 503  
define PIE#25 504  
define PIE#LABELS 505  
define PIE#PERCENT 506  
define PIE#3D 507  
define PIE#3D#LABELS#10 508  
define PIE#3D#EXPLOSION 509  
define PIE#3D#25 510

```

define PIE#3D#LABELS          511
define PIE#3D#PERCENT        512

define XY                      601
define XY#L#AND#M            602
define XY#MARKER_XYGRIDS    603
define XY#MARKER_YLOG       604
define XY#CURVE              605
define XY#BUBBLE             606
define XY#HILO#1            607
define XY#HILO#2            608
define XY#HLCO#1            609
define XY#HLCO#2            610
define XY#AREA               611
define XY#LINE               612

define COMBINATION           701
define COMBINATION#YAXIS#23 702
define COMBINATION#HILO#1#Y2 703
define COMBINATION#HILO#2#Y2 704
define COMBINATION#HLCO#1#Y2 705
define COMBINATION#HLCO#2#Y2 706

define BUBBLE                801
define HISTOGRAM             802
define HISTOGRAM#EQUAL#WIDTH 803

```

## chart\_.am

```
f
.....
.....
' chart formating data
.....
format chart_datum@
    ' label string
    label_x_offset,
    label_y_offset,
    label_string,

    ' the data and the way to display it
    display_type, ' "plot", "substitute", "span", "gap", or "null"
    x, y, z
```

```
format chart_number_format@
    style,
    aux_style_info,
    units,
    radix_places,
    prefix, suffix,
    am_str,
    pm_str,
    true_str,
    false_str,
    thousands_seperator,
    decimal_seperator,
    display_format_errors,
    trim_string
```

```
format chart_trend@
    type,
    t_order,
    r_squared,
    correlations
```

```
format chart_group@
    type, stack_id, custom_part_name,
    x_axis,
    y_axis,
    z_axis,
    label_x_offset,
```

label\_y\_offset,  
label\_type,  
format chart\_number\_format@ label\_format,  
format arrayof chart\_datum@ data,  
legend\_string,  
label\_alignment,  
data\_range,  
hidden,  
format chart\_trend@ trend

format chart\_type\_info@  
bar\_margin,  
bar\_overlap,  
starting\_pos

format chart\_axis@  
type, ' category, value, log10  
auto\_max, max\_value,  
auto\_min, min\_value,  
auto\_bas, bas\_value,  
position, floating\_value,  
minor\_tik\_type,  
minor\_tik\_size,  
auto\_n\_minor\_tiks, n\_minor\_tiks,  
major\_tik\_type,  
major\_tik\_size,  
auto\_n\_major\_tiks, n\_major\_tiks,  
bar\_margin,  
bar\_overlap,  
use\_tik\_attributes,  
behind\_data,  
hidden

format chart\_axis\_labels@  
type, ' category, value, log10  
tight\_label, label, label\_x\_margin, label\_y\_margin, label\_alignment,  
format chart\_number\_format@ tik\_format,  
tight\_tiks,  
tik\_range,  
tik\_labels,  
tik\_margin,  
tik\_alignment,  
tik\_filter,  
tik\_flags

```
format chart_axis_info@
    value_type, log10,
    auto_max, max_value,
    auto_min, min_value,
    auto_bas, bas_value,
    position, value,
    minor_tik_type,
    minor_tik_size,
    auto_n_minor_tiks, n_minor_tiks,
    major_tik_type,
    major_tik_size,
    auto_n_major_tiks, n_major_tiks,
    format chart_number_format@ tik_format,
    label_x_margin, label_y_margin,
    tik_range, tik_filter, tik_labels, tik_flags,
    label,
    bar_margin,
    bar_overlap,
    label_alignment,
    tik_alignment,
    tik_margin,
    tight_label,
    tight_tiks,
    use_tik_attributes,
    behind_data,
    hidden
```

```
format chart_decorations@
    close_top,
    close_bottom,
    close_left,
    close_right,
    major_h_grids,
    minor_h_grids,
    major_v_grids,
    minor_v_grids,
    close_foreground,
    close_background,
    major_z_grids,
    minor_z_grids
```

```
format chart_legend@
    disabled,
```

uses\_x\_space,  
uses\_y\_space,  
text\_before\_sample,  
arrange\_by\_row, max\_per\_row\_or\_column,  
title,  
horizontal\_alignment, horizontal\_offset,  
vertical\_alignment, vertical\_offset,  
top\_margin, bottom\_margin, row\_margin,  
left\_margin, right\_margin, column\_margin,  
proportional\_margins,  
title\_alignment,  
label\_range

format chart\_titles@  
title, title\_alignment,  
expand\_margin\_for\_title,  
title\_x\_offset,  
title\_y\_offset,  
subtitle, subtitle\_alignment,  
expand\_margin\_for\_subtitle,  
subtitle\_x\_offset,  
subtitle\_y\_offset,  
footer, footer\_alignment,  
expand\_margin\_for\_footer,  
footer\_x\_offset,  
footer\_y\_offset

format chart\_3D\_effect@  
enabled,  
yaw,  
pitch,  
projection,  
depth,  
right\_angles

.....  
.....  
' range parsing formats  
.....

format range\_datum@  
cell\_string,  
data\_value

format chart\_range@

series\_string,  
format arrayof range\_datum@ values

format chart\_range\_list@  
row\_string,  
col\_string,  
data\_string,  
format arrayof chart\_range@ row\_range,  
format arrayof chart\_range@ col\_range,  
format arrayof chart\_range@ data\_range

format chart\_data@  
ranges,  
legend\_cells,  
axis\_tick\_range

format chart\_range\_info@  
ranges,  
legend\_cells,  
legend\_range,  
axis\_tick\_range

## dbase\_.am

```
,
,
,
' Profiles:
,
define DBASE#PROF#JOIN_MACRO      "dbaseJoinMacro"
define DBASE#PROF#USER            "dbaseDefaultUser"
define DBASE#PROF#PASSWD         "dbaseDefaultPasswd"
define DBASE#PROF#DBASE          "dbaseDefaultDatabase"
define DBASE#PROF#PORT           "dbaseDefaultElfPort"
define DBASE#PROF#MACHINE        "dbaseDefaultHost"
define DBASE#PROF#MAX_RECORDS    "dbaseDefaultMaxRecords"

define DBASE#PROF#VENDOR         "dbaseDefaultVendor"
define DBASE#PROF#SERVER         "dbaseDefaultServer"
define DBASE#PROF#ROUTING        "dbaseDefaultRouting"
define DBASE#PROF#AUTO_QUERY     "dbaseAutoQuery"

define DBASE#PROF#TABLE_OWNER    "dbaseDefaultTableOwner"

define DBASE#PROF#AUTO_CONNECT   "dbaseAutoConnect"

define DBASE#PROF#FONT           "dbaseDefaultFont"
define DBASE#PROF#FONT_SIZE     "dbaseDefaultFontSize"
define DBASE#PROF#FONT_BOLD     "dbaseDefaultFontBold"
define DBASE#PROF#FONT_ITALIC   "dbaseDefaultFontItalic"
define DBASE#PROF#TABLE_LIST    "dbaseTableListingMacro"
define DBASE#PROF#FETCH_COUNT   "dbaseFetchRecordsCount"

define DBASE#PROF#DATETIME_FORMAT "dbaseDatetimeFormat"
define DBASE#PROF#TIMEOUT       "dbaseTimeout"
,
,
' Special Files:
,
define DBASE#DBASE_LIST "rdblast"    ' list of known databases in user's axhome
,
,
' Command codes used as the first arg to the update request macro
' specified by the dbase_update_validator@ function. Note that
' when the funtion is called, a rejection should be in the form
```



' of a thrown error, not an info\_message@ or return value. The  
' return value of the validator MUST be null.

```
define DBASE#UPDATE#RQST 0  
define DBASE#DELETE#RQST 1  
define DBASE#INSERT#RQST 2
```

' Poke Codes emitted by data dipper to subordinate dialogs.

```
define DBASE#CONNECTING          11001 ' New connection being made  
define DBASE#CONNECTED          11002 ' New connection established  
define DBASE#TABLES              11003 ' Tables list has changed  
define DBASE#SELECTIONS         11004 ' Change of "highlights"  
define DBASE#REQUERY            11005 ' Database queried for new data  
define DBASE#FETCHING           11006 ' Getting next set of records  
define DBASE#DBL_CLICKED        11007 ' Rows was double clicked  
define DBASE#KEY_PRESS          11008 ' Key press  
define DBASE#COLUMNS           11009 ' Columns displayed has changed  
define DBASE#KEY_COLUMNS        11010 ' Key columns has changed  
define DBASE#CREATED_COLUMNS    11011 ' New columns created  
define DBASE#SORT               11012 ' Sort order changed  
define DBASE#CONDITIONS        11013 ' Conditions changed  
define DBASE#GROUP_BY          11014 ' Group by list changed  
define DBASE#HAVING             11015 ' Having clause changed  
define DBASE#HEADINGS          11016 ' Column headings changed  
define DBASE#INTERACTIVE       11017 ' Interactive mode  
define DBASE#FONT              11018 ' Font changed  
define DBASE#COMMIT            11019 ' Commit edits  
define DBASE#DISCARD           11020 ' Discard edits
```

' Data types to be specified for Sybase remote procedure execution

```
define SYB#CHAR_                 0x2f  
define SYB#VARCHAR_             0x27  
define SYB#TEXT_                 0x23  
define SYB#BINARY_              0x2d  
define SYB#VARBINARY_           0x25  
define SYB#IMAGE_               0x22  
define SYB#INT1_                 0x30  
define SYB#INT2_                 0x34
```

```

define SYB#INT4_          0x38
define SYB#FLT8_          0x3e
define SYB#REAL_          0x3b
define SYB#BIT_           0x32
define SYB#MONEY_         0x3c
define SYB#MONEY4_        0x7a
define SYB#DATETIME_      0x3d
define SYB#DATETIME4_     0x3a

```

' A Data Dipper Document is fundametally an Elf data file that contains  
' a sql\_state@ formatted array:

```

format sql_state@          ' This is what's saved to disk
    revstamp,              ' Currently zero
    asc_header,           ' This is used only by Applixware Source Control system
    save_mode,            ' DBASE#SAVE_QUERY_ONLY,
                           DBASE#SAVE_WITH_DATA ...

    not_used1,
    not_used2,
    vendor,                ' Oracle, Informix...
    not_used3,
    not_used4,
    database,              ' name of default database
    host,                  ' Host computer name
    server,                ' the SQL server name on the machine (Sybase)
    routing,               ' vendor routing string (e.g. t:node:database in Oracle)
    sqlstr,                ' array of str's that is the actual SQL code
    ' column headers name mapping
format arrayof sql_heading@ headers,
format arrayof sql_table_info@ tables, ' tables involved in query
format sql_struct@ asql,   ' the result of user's work
    database_list,         ' sybase only - all databases to query on
    not_used6,
    not_used7,
    interactive,          ' define user interaction (SQL source/interactive)
    tableWinHeight,
    tableWinWidth,
    not_used8,
    not_used9,
format sql_result@ savedData, 'data, if save_mode = DBASE#SAVE_WITH_DATA
    not_used10,
    not_used11,
    not_used12,

```

```

not_used13,
format sql_aliases_info@ alias, ' the alias information
format sql_char_attr_type@ font, ' font for whole of Data Dipper
update_validator,
triggerstr, ' used by rtsql for watch query
double_click_macro ' called on row double-click

format sql_heading@
name, ' Name to use in table
width, ' in 75dpi's
type, ' text, date...
db_name, ' database table.colname
alignment, ' 1 = Left, 2 = Center 3 = Right
displayFormat ' display format. for datetime is datetime format. If null,
' use default.

format sql_dbase_entry@
vendor, ' as returned from dbase_database_list@()
database, ' Oracle, Informix...
host, ' Engine's name of database
server, ' Machine running elf/sql server
routing, ' the SQL server name on the machine (Sybase)
port, ' vendor routing string (e.g. t:node:database in Oracle)
serviceName ' Null or port name
' Axnet service name to elf/sql server

format sql_table_info@
name,
uid, ' to be able to get columns stuff
colnames ' if null, use uid to get columns

format sql_join_info@
table1, ' name of table (not struct)
table2,
column1, ' name of column in table
column2,
outer1, ' outer join?
outer2, ' for both tables (ANSI SQL)
operate ' =, !=, <, <=, >, >=

format sql_condition_info@
table1,
column1,
compare,

```

operate, ' =, >, < ... '
   
 not\_it, ' preface basic operator with NOT
   
 value,
   
 valueList, ' for between's and in's
   
 table2,
   
 column2,
   
 or\_mode, ' if true, OR rather than and
   
 grp\_lvl, ' OBSOLETE
   
 sqlstr, ' a subselect string
   
 type, ' value/column/subselect ?
   
 front\_parens, ' no of (left ) parens before
   
 rear\_parens ' no of (right) parens after the condition

format sql\_sort\_info@
   
 column\_name,
   
 descending

format sql\_struct@
   
 query\_cols, ' if null, "\*". only those in the select list
   
 unused, ' used to be tab\_cols, but was never used
   
 expressions, ' all the computed columns
   
 format arrayof sql\_join\_info@ join, ' list of tables to join
   
 format arrayof sql\_condition\_info@ conditions,
   
 group\_cols, ' columns to "group by "
   
 format arrayof sql\_condition\_info@ havings, ' columns may be expressions
   
 format arrayof sql\_sort\_info@ sort,
   
 no\_duplicates

format sql\_result@ ' result of a query
   
 format col\_info@ xxxyyy, ' col names and data types
   
 rows ' the major data

format sql\_aliases\_info@
   
 db\_names, ' actual names of the columns in the DBMS (array)
   
 pseudonyms, ' Name to use in display table (array)
   
 widths, ' in 75dpi's (array)
   
 types, ' type of data text, date... (array)
   
 alignments, ' 1 = Left, 2 = Center 3 = Right (array)
   
 displayFormats

format sql\_cursor\_properties@
   
 fetch\_size, ' num of records per fetch [50]
   
 trim\_strings, ' trim strings? [SQL\_TRIM\_BOTH\_]
   
 transpose\_data, ' transpose data? [FALSE]

```

    nums_as_nums,          ' numbers as numbers? [FALSE] (i.e. as strings)
    binary_size_limit, '(added 3.2)max size of binary data item fetched
    timeout, '(added 3.2)timeout in seconds, zero for infinite, null for default
    max_rows,  'maximum number of rows (passed to DBMS server), null for default
    dates_as_dates      'Dates as Dates? [FALSE] (i.e, as strings)

format col_info@
    names,              ' headers info on sql_select@ when "headingsToo"
    types              ' array of heading names
                    ' array of datatypes, see sqltypes.h

,
' General Purpose defines
,
define DBASE#SAVE_QUERY_ONLY  0      ' Save Mode
define DBASE#SAVE_WITH_DATA  1      ' Save Mode

,
' Sybase stored procedures return a sql_procedure_result@ which
' is an array with three elements.
' The first element is an array composed of the results of the select
' statements executed by the stored procedure.  If there are two select
' statements, this is an array of 2 items. Each of the 2 contains a 2-d array
' which is the result of the select,
,
format sql_procedure_result@
    select_results,    ' 3-d array of select results (one 2-d array per select)
    return_parameters, ' return parameters from the stored procedure
    status            ' status number returned by the procedure

format sql_procedure_params@
    data,              ' data to be passed to the stored procedure
    type,              ' type of data; SYB#INT1_, SYB#REAL_ etc
    output            ' is it a return parameter?

'returned by sql_get_col@
format sql_collist@
    id,                "" for all or for expressions, otherwise table name
    sqlready,          'fully qualified colnames and expressions
    userready,        'semiqualfied colnames w/aliases
    reserved

'information about external editors that are running to edit binary data items
format sql_editor@
    tempFile,         'name of temp file that contains binary info

```

taskId,	'id of task launched to edit/view.
docType,	'type of document
dateLastModified,	'when the tempFile was created from dbms data
SQLTable,	'table name
SQLColumn,	'column name
SQLCondition,	""where" conditions for row. If null, insert.
dbTableRow	'db_table row number for this data

```
format sql_char_attr_type@
    face,
    size,
    bold,
    italic
```

```
format sql_channel@
    id,
    host
```

/\* used by search and replace code \*/

```
format sql_search_args@
    find_str,           'string to search for
    replace_str,       'string to replace with
    colnames,          'columns to search within
    row,               'last previously found location
    col,               'last previously found location
    forward,           'true if search forward, false if search backward
    case_sensitive,    'case sensitive search
    preserve_case,     'case sensitive replace
    whole_entry,       'match entire entry or substring
    match_found,       'set by searcher to indicate whether match found
    format sql_result@ data 'the data set to search
```

/\*  
Interface between ELF & C for Elf database access.  
SQL Gateway defines.

\*/

```
#define ELFSQL_PING_           0
#define ELFSQL_CONNECT_       1
#define ELFSQL_DISCONNECT_    2
#define ELFSQL_LOGGING_       3
```

```

#define ELFSQL_PREPARE_          4

#define ELFSQL_UNPREPARE_       5
#define ELFSQL_DECL_CURSOR_     6
#define ELFSQL_OPEN_CURSOR_     7
#define ELFSQL_FETCH_CURSOR_    8
#define ELFSQL_CLOSE_CURSOR_   9

#define ELFSQL_EXEC_STR_        10
#define ELFSQL_EXEC_STMT_       11
#define ELFSQL_PREPARE_UPDT_    12
#define ELFSQL_SEND_BIN_        13
#define ELFSQL_CURSOR_PROPS_   14

#define ELFSQL_PROCEDURE_       15
#define ELFSQL_QUERY_FORMAT_    16 /* for non-SQL gateways */
#define ELFSQL_COL_NAMES_       17 /* for non-SQL gateways */
#define ELFSQL_TABLE_NAMES_     18 /* for non-SQL gateways */
#define ELFSQL_ACCEPT_TABLE_    19 /* for non-SQL gateways */
#define ELFSQL_DESCRIBE_        20
#define ELFSQL_PREPARE_WATCH_   21
#define ELFSQL_WATCH_QUERY_     22
#define ELFSQL_INTERRUPT_RECVD_ 23
#define ELFSQL_PAUSE_           24 /* gateway will pause(), so debugger can attach */
#define ODBC_DATA_SOURCES_      25 /* for ODBC, get list of possible connections */
#define ODBC_TABLES_           26 /* get table names */
#define ODBC_COLUMNS_          27 /* get column names */
#define ODBC_DATASOURCES_      28 /* get list of data sources */
#define ODBC_PRIMARYKEYS_      29
#define ODBC_TRANSACTIONS_     30
#define ODBC_GETINFO_          31
#define ODBC_SETPOS_           32

/*
 * The basic data types in RDBMS:
 */

#define SQL_CHAR_               1
#define SQL_NUMBER_             2
#define SQL_BINARY_             3

/*
 * The alignment information for the displayed columns. left, center
 * and right.

```

```
*/

#define SQL_ALIGN_L_          1
#define SQL_ALIGN_C_          2
#define SQL_ALIGN_R_          3

/*
 * Whether and where to trim the strings
 */

#define SQL_TRIM_BOTH_        0
#define SQL_TRIM_BEGIN_       1
#define SQL_TRIM_END_         2
#define SQL_TRIM_NONE_        3

/* format string for dates coming from SQL gateways */
#define SQL_DATETIME_FORMAT_ "yyyy-mm-dd HH:mi:ss"
/* same format, expressed in Oracle. */
#define SQL_ORACLE_DATETIME_FORMAT_ "YYYY-MM-DD HH24:MI:SS"
```



## **dialog\_.am**

' Dialog box info.

,

' Type values for db\_create\_ctrl@

,

```
define DLG#RADIO_BOX_ 0
define DLG#TOGGLE_BUTTON_ 1
define DLG#OPTION_MENU_ 2
define DLG#BUTTON_ 3
define DLG#ENTRY_FIELD_ 4
define DLG#LABEL_ 5
define DLG#BITMAP_ 6
define DLG#LIST_BOX_ 7
define DLG#RECTANGLE_ 8
define DLG#EDIT_BOX_ 9
define DLG#SPLITTER_ 10
define DLG#SCALE_ 11
define DLG#TABLE_ 12
define DLG#ROWCOL_ 13
define DLG#CANVAS_ 14
define DBL#TRAY_ 15
```

,

' Button types for db\_ctrl\_button\_type@

,

```
define DLG#NORMAL_BUTTON 0
define DLG#OK_BUTTON 1
define DLG#CANCEL_BUTTON 2
define DLG#HELP_BUTTON 3
define DLG#ICON_BUTTON 4
define DLG#APPLY_BUTTON 5
```

' info for db\_ctrl\_right\_mouse@

,

format rminfo@

```
name,
macro_name,
active
```

## **dlgpoke\_.am**

```
/*
```

These are big numbers so users can use small numbers.

```
*/
```

```
#define POKE_MIN_APPLIX          9999 /* below this for customers */

#define POKE_EXIT                9999 /* Window manager exit directive */
#define POKE_DESTROY_ALL        10000 /* kill all child dialogs */
#define POKE_DELETE_FILE        10001 /* File deleted, update
dir displays */
#define POKE_WRITE_FILE         10002 /* File created/written, update dir displays */
#define POKE_WIDGET             10003 /* general widget
activity */
#define POKE_DEBUGGER           10004 /* Just for debugger
panels */
#define POKE_MAPPED             10005 /* window was just
mapped */
#define POKE_MENU_BAR           10021 /* New menu bar
installed */
#define POKE_MENU_STATUS        10022 /* tell toolbar to query
app for status */
#define POKE_DIALOG_RESIZED     10023 /* dialog has been
resized */
#define POKE_HDRFTRS            10051 /* hdr/ftr/margins have
changed */
#define POKE_DIRDISP_NEWDIR     10052 /* tell dir displayer to
look to new dir */
#define POKE_CLEAR_SELECTION    10053 /* window that held
selection is told that
another app now has
the selection */
#define POKE_DOC_MODIFIED       10054 /* when a document
has changed. */
#define POKE_TASK_EXIT          10055 /* when a task has
exited. */
#define POKE_DUMMY_EVENT        10056 /* a resent event -
check the data */
#define POKE_NEW_CURSOR         10057 /* a new cursor has
been added */
```

```
/* WP poke codes */
```

```

#define POKE_WP_DLGS          10101 /* state of WP has
                                changed */
#define POKE_WP_CURSOR      10102 /* WP cursor has
                                moved */
#define POKE_WP_MARKS      10103 /* WP marks status has
                                changed */
#define POKE_WP_BUTTON_UP  10104 /* mouse button
                                released */
#define POKE_WP_EDIT        10105 /* edit has occurred */
#define POKE_WP_TAGS        10106 /* tag has moved or
                                been added/deleted */
#define POKE_WP_GLOSSARY   10107 /* glossary has been
                                created/deleted */
#define POKE_WP_STYLE       10108 /* style has been
                                created/deleted */
#define POKE_WP_COLOR       10109 /* color
                                modified/created/deleted */
#define POKE_WP_DICTS      10110 /* dictionary added/
                                removed from usage */
#define POKE_WP_LANGUAGE   10111 /* new language
                                specified for curr doc */
#define POKE_WP_HELP_JUMP  10112 /* Help-system
                                hyperjump */
#define POKE_WP_GR_SRC_SIZE 10113 /* graphic source size
                                changed */
#define POKE_WP_UNDO        10114 /* Undo has been
                                accomplished */
#define POKE_WP_REDO        10115 /* Redo has been
                                accomplished */
#define POKE_HELP_SEARCH_LIST 10116 /* search box info state
                                should change */
#define POKE_WP_CHAR_ATTRS 10117 /* current character
                                attrs changed */
#define POKE_WP_PARA_ATTRS 10118 /* current para attrs
                                changed */
#define POKE_WP_TAB_ATTRS  10119 /* current tab attrs
                                changed */
#define POKE_WP_FRAME_ATTRS 10120 /* current frame attrs
                                changed */
#define POKE_WP_BORDER_ATTRS 10121 /* current border attrs
                                changed */
#define POKE_WP_SECTION_TYPE 10122 /* current section type
                                changed */

```

```

#define POKE_WP_COLUMNS          10123 /* current column attrs
changed */
#define POKE_WP_PAGE_SETUP      10124 /* current page setup
changed */
#define POKE_WP_HDR_FTR        10125 /* current hdr/ptr attrs
changed */
#define POKE_WP_PAGE_NUMBERING  10126 /* current page
numbering attrs changed */
#define POKE_WP_CURRENT_STYLE  10127 /* current style name
changed */
#define POKE_WP_ZOOM           10128 /* zoom changed */
#define POKE_WP_SAVE           10129 /* file saved */
#define POKE_HELP_FREEZE_DOMAIN 10130 /* freeze domain at
named domain */
#define POKE_WP_FILE           10131 /* File Revert, Open, or New */
#define POKE_WP_HYPER_TARGET   10132 /* Hypertarget has
been created/del'd */
#define POKE_WP_DOC_VAR        10133 /* Doc Var has been
created/deleted */
#define POKE_WP_XREF_SRC       10134 /* Xref Source has
been created/del'd */
#define POKE_HELP_BOOK         10135 /* Need to update
book contents box */
#define POKE_HELP_ADD_DOMAIN   10136 /* A new domain has
been added */
#define POKE_HELP_RAISE_HISTORY 10137 /* History invoked
and history exists */
#define POKE_HELP_RAISE_SEARCH 10138 /* Search invoked
and search exists */
#define POKE_HELP_RAISE_CONTENT 10139 /* Contents invoked
and already exist */
#define POKE_HELP_NEW_BOOK     10140 /* A new book was
selected */
#define POKE_WP_FORM_MODE      10141 /* Enter or exit Form
Mode */
#define POKE_HTML_URL          10142 /* A new URL was
defined */
#define POKE_HTML_TARGET       10143 /* A new target (e.g.
#section2) was defined */

/* GE poke codes */
#define POKE_GE_SELECTION      10201 /* object(s) was
marked */

```

```

#define POKE_GE_DESELECTION      10202 /* object(s) was
unmarked */
#define POKE_GE_NO_TEXT          10203 /* no text objects are
selected */
#define POKE_GE_ATTR_CHANGE      10204 /* an objects attributes
have changed */
#define POKE_GE_CPARAM_CHANGE    10205 /* the bg's data has
changed */
#define POKE_GE_TOOL_CHANGE      10206 /* the tool has
changed */
#define POKE_GE_PIX_SESS_END     10207 /* a pixed session has
ended */
#define POKE_GE_PIX_COLOR        10208 /* pixed fg or bg color
has changed */
#define POKE_GE_PIX_RESTART      10209 /* note that the pixed
has restarted */
#define POKE_GE_BG_FORMAT        10210 /* the bg's graph type
has changed */
#define POKE_GE_CMAP_CHANGE      10211 /* the colormap has
changed */
#define POKE_GE_PARTS_CHANGE     10212 /* the user defined
parts list changed */
#define POKE_GE_NEW_FILL         10213 /* a new fill pattern has
been added */
#define POKE_GE_NEW_UNITS        10214 /* the unit of measure
has changed */
#define POKE_GE_NEW_PAGE         10215 /* printable area or
zero point changed */
#define POKE_GE_NEW_LINES       10216 /* palette line buttons
have changed */
#define POKE_GE_IMAGE_CHANGE     10217 /* image type has
changed */
#define POKE_GE_PIX_SESS_BGN     10218 /* a pixed session has
begun */
#define POKE_GE_PAGE_EVENT       10219 /* the current page has
changed */
#define POKE_GE_RESTART          10220 /* note that the ge has
done a revert */
#define POKE_GE_NEW_PRNT_PG      10221 /* note that print page
got changed */
#define POKE_GE_SLIDE_OPTION     10222 /* note that slide
option got changed */

```

```

/* BG poke codes */

```

```

#define POKE_BG_NEW_CHART      10250 /* chart was added or
deleted */
#define POKE_BG_CHART_TYPE    10251 /* chart type was
changed */
#define POKE_BG_CHART_CHANGE  10252 /* chart was changed
(generic) */
#define POKE_BG_CHART_LAYOUT  10253 /* chart layout
changed (vert<==>horz) */
#define POKE_BG_CHART_3D      10254 /* chart 3D effect
changed */
#define POKE_BG_NEW_AXIS      10255 /* chart axis was
added/deleted */
#define POKE_BG_AXIS_CHANGE   10256 /* chart axis was
changed */
#define POKE_BG_AXIS1_CHANGE  10257 /* chart axis line was
changed */
#define POKE_BG_AXIS2_CHANGE  10258 /* chart axis label was
changed */
#define POKE_BG_NEW_GRP       10259 /* chart group was
added/deleted */
#define POKE_BG_GRP_CHANGE    10260 /* chart group was changed */

/* SS poke codes */
#define POKE_SS_MARKS         10301 /* user has selected
new cell/range */
#define POKE_SS_ROWCOL       10302 /* user has selected
new row/col */
#define POKE_SS_COLS         10303 /* user has selected
new columns */
#define POKE_SS_EDIT         10304 /* EditMode change
ON/OFF */
#define POKE_SS_ROWS         10305 /* user has selected
new rows */
#define POKE_SS_RESTART      10306 /* File open has been
selected */
#define POKE_SS_CHART_CHANGE  10307 /* chart selection
changed */
#define POKE_SS_NAME_CHANGE   10308 /* name has changed
or deleted or added */
#define POKE_SS_VIEW_CHANGE   10309 /* view has changed,
deleted or added */
#define POKE_SS_DB_CHANGE     10310 /* db entity has
changed,delted or added */

```

```

#define POKE_SS_COL_WIDTH      10311 /* col width has
                                changed */
#define POKE_SS_ROW_HEIGHT    10312 /* row height has
                                changed */
#define POKE_SS_GROBJ_CHANGE  10313 /* the graphic object
                                selection changed */
#define POKE_SS_FUNC_OVERWRITE 10314 /* a bltin functions has
                                been overwritten*/
#define POKE_SS_PREVIEW_RESTART 10315 /* ss print preview
                                restart ***/
#define POKE_SS_EXPLINE_UPDATE 10316 /* ss poke to update
                                express line */
#define POKE_SS_REVERT        10317 /* ss poke for revert */
#define POKE_SS_FUNCS_CHANGE  10318 /* ss poke
                                add/remove functions */
#define POKE_SS_SELECTION_CHANGE 10319 /* ss selection
                                change poke */
#define POKE_SS_CHART_UPDATE    10320 /* poke for
                                updating the given chart*/

/* Mail poke codes */
/*
 * New poke codes added for Spool (Mail) server.
 */
#define POKE_SP_NEW_MAIL      10400 /* new mail has
                                arrived */
#define POKE_SP_USR_CHANGE    10401 /* a user has been
                                added/deleted */
#define POKE_SP_PREF_CHANGE   10402 /* Mail preferences
                                have changed */
#define POKE_SP_MSG_CHANGE    10403 /* next/prev from Read
                                Mail mbox */
#define POKE_SP_MSG_UPDATE    10404 /* new info available for
                                Read Mail */
#define POKE_SP_OB_MSG_UPDATE 10405 /* new info available for
                                Read Obox */
#define POKE_SP_OB_MSG_CHANGE 10406 /* next/prev from Read
                                Outbox mbox */
#define POKE_SP_OB_NEW_OBOX   10407 /* new outbox item
                                available */
#define POKE_SP_SIGUSR2_TERM  10408 /* signal to terminate
                                sigusr2 */
#define POKE_SP_NOTIFY_OPT    10409 /* new mail notifier
                                response */

```

```

#define POKE_SP_FLDR_CHANGE      10410 /* new/renamed/
deleted mail folder */
#define POKE_SP_NEW_MARK        10411 /* inbox selection has
changed */
#define POKE_SP_MOVE_FILE       10412 /* inbox item has just
changed loc */
#define POKE_SP_SYNCH_FLDR      10413 /* current folder
contents changed */
#define POKE_SP_COPY_MESSAGE    10414 /* poke from
copy_message to inbox */
#define POKE_SP_NEW_RECIP       10415 /* new recipient
selection */
#define POKE_SP_DELETE_MESSAGE  10416 /* poke from
delete_message to inbox */
#define POKE_SP_TAG_MESSAGE     10417 /* poke from
tag_message to inbox */
#define POKE_SP_HOWDY_ROB      10418 /** this poke available
for use **/
#define POKE_SP_SELECT_ALL      10419 /* request to select all
messages */
#define POKE_SP_FLDR_MARK       10420 /* folder selection in
Inbox */
#define POKE_SP_SHOW_NUMBERS    10421 /* display Inbox
message numbers */
#define POKE_SP_SHOW_SHARED     10422 /* display shared
folders in Inbox */
#define POKE_SP_ADD_INFO        10423 /* add info to a sender
dialog */
#define POKE_SP_CHANGE_FOLDER   10424 /* change current Inbox
folder */
#define POKE_SP_EDIT_COMMENT    10425 /* change message
comment */
#define POKE_SP_FORWRD_MESSAGE  10426 /* forward
selected message */
#define POKE_SP_COLOR_MESSAGE   10427 /* color selected
message */
#define POKE_SP_ENCRYPT_MESSAGE  10428 /* encrypt
selected message */
#define POKE_SP_SELECTION_INFO  10429 /* speller selection
poke */
#define POKE_SP_REPLACE_TXT     10430 /* speller replace text
poke */
#define POKE_SP_UPDATE_INFO     10431 /* speller request for
new info */

```



```

#define POKE_SP_SELECT_MESSAGE      10432 /* poke to Inbox
to select msg(s) */
#define POKE_SP_GET_SELECTIONS 10433 /* synch request to
Inbox for sels */
#define POKE_SP_SYNCH_SHARED      10434 /* synch a (remote)
shared folder */
#define POKE_SP_SIGN_MESSAGE      10435 /* current message was
just signed */
#define POKE_SP_GET_ATTSELS      10436 /* synch rqst to Inbox
for att sels */
#define POKE_SP_SEND_INFO        10437 /* request for save
mail context */
#define POKE_SP_MAIL_SORT        10438 /* request for save
mail context */

#define POKE_BB_SERVER_INFO      10450 /* shared folder status
message */

/* OpenMail pokes */
#define POKE_SP_STATUS_MSG      10460 /* update status
message in OM Inbox */
#define POKE_SP_NEW_XMSG        10461 /* arrival of new
OpenMail message */
#define POKE_OM_CONFIG_DIR      10462 /* user directory
configuration */
#define POKE_OM_RECIP_PICK      10463 /* selection from
recipient list */
#define POKE_OM_ALT_PICK        10464 /* selection from
Directory alts*/
#define POKE_OM_TARGET_SEL      10465 /* selection from folder
targets */
#define POKE_OM_COPY_MSG        10466 /* copy request */
#define POKE_OM_MOVE_MSG        10467 /* move request */

/* Dialog Editor */
#define POKE_DE_MESSAGE          10500 /* mid-session
message */
#define POKE_DE_SESSION          10501 /* start session, stop
session, .. */

/* Data Dipper... uses codes 11000 to 11500 ... see dbase_.am */

/* Applixware Builder uses codes 12000 to 12100 -- see builder.elh */

```

```

#define POKE_OBJECT_THROW      14999 /* event sent to object */
/*
 * Pokes below 15000 are for ELF-ELF communications.
 * If a dialog is up, the suspend the dialog as a "poke_".
 * Otherwise, they are readable using GET_MESSAGE@.
 */
#define POKE_MAX_MESSAGE      15000

```

## elfpen\_.am

```

/*****
 * GRAPHICS DEFINITIONS
 *****/

/* graphics functions, as in GC.alu */

#define XVAL_GXclear      0x0 /* 0 */
#define XVAL_GXand       0x1 /* src AND dst */
#define XVAL_GXandReverse 0x2 /* src AND NOT dst */
#define XVAL_GXcopy      0x3 /* src */
#define XVAL_GXandInverted 0x4 /* NOT src AND dst */
#define XVAL_GXnoop      0x5 /* dst */
#define XVAL_GXxor       0x6 /* src XOR dst */
#define XVAL_GXor        0x7 /* src OR dst */
#define XVAL_GXnor       0x8 /* NOT src AND NOT dst */
#define XVAL_GXequiv     0x9 /* NOT src XOR dst */
#define XVAL_GXinvert    0xa /* NOT dst */
#define XVAL_GXorReverse 0xb /* src OR NOT dst */
#define XVAL_GXcopyInverted 0xc /* NOT src */
#define XVAL_GXorInverted 0xd /* NOT src OR dst */
#define XVAL_GXnand      0xe /* NOT src OR NOT dst */
#define XVAL_GXset       0xf /* 1 */

/* LineStyle */

#define XVAL_LineSolid      0
#define XVAL_LineOnOffDash  1
#define XVAL_LineDoubleDash 2

/* capStyle */

```

```

#define XVAL_CapNotLast          0
#define XVAL_CapButt            1
#define XVAL_CapRound           2
#define XVAL_CapProjecting      3

/* joinStyle */

#define XVAL_JoinMiter          0
#define XVAL_JoinRound         1
#define XVAL_JoinBevel         2

/* fillStyle */

#define XVAL_FillSolid          0
#define XVAL_FillTiled         1
#define XVAL_FillStippled      2
#define XVAL_FillOpaqueStippled 3

/* fillRule */

#define XVAL_EvenOddRule        0
#define XVAL_WindingRule        1

/* subwindow mode */

#define XVAL_ClipByChildren     0
#define XVAL_IncludeInferiors  1

/* SetClipRectangles ordering */

#define XVAL_Unsorted           0
#define XVAL_YSorted            1
#define XVAL_YXSorted           2
#define XVAL_YXBanded           3

/* CoordinateMode for drawing routines */

#define XVAL_CoordModeOrigin    0    /* relative to the
                                       origin */
#define XVAL_CoordModePrevious  1    /* relative to
                                       previous point */

/* Polygon shapes */

```

```

#define XVAL_Complex      0    /* paths may intersect */
#define XVAL_Nonconvex   1    /* no paths intersect, but
                               not convex */
#define XVAL_Convex      2    /* wholly convex */

/* Arc modes for PolyFillArc */

#define XVAL_ArcChord    0    /* join endpoints of arc */
#define XVAL_ArcPieSlice 1    /* join endpoints to center
                               of arc */

/* Font Names */

#define XVAL_font_default "default" /* dialog font */
#define XVAL_font_times   "Times"
#define XVAL_font_helvetica "Helvetica"
#define XVAL_font_courier "Courier"
#define XVAL_font_symbol  "Symbol"
#define XVAL_font_bookman "Bookman"
#define XVAL_font_new_century_schoolbook "New Century Schoolbook"
#define XVAL_font_palatino "Palatino"
#define XVAL_font_avant_garde "Avant Garde"
#define XVAL_font_helvetica_narrow "Helvetica Narrow"
#define XVAL_font_zapf_chancery "Zapf Chancery"
#define XVAL_font_zapf_dingbats "Zapf Dingbats"

/* Font sizes */

#define XVAL_size_10      10
#define XVAL_size_12      12
#define XVAL_size_14      14
#define XVAL_size_18      18
#define XVAL_size_24      24
#define XVAL_size_36      36

```

## errors\_.am

```
define ERR#BAD_ONCALL_          4097  ' illegal on call
define ERR#BAD_ONGOTO_         4098  ' illegal on goto
define ERR#ZERO_DIVIDE_        4099  ' divide by zero
define ERR#NEXT_WITHOUT_FOR_   4100  ' NEXT without FOR
define ERR#NOT_LABEL_          4101  ' not a label
define ERR#NUM_TOO_BIG_        4102  ' number too large for int
define ERR#STACK_OVF_          4103  ' stack overflow
define ERR#NOT_A_VARIABLE_     4104  ' not a variable
define ERR#NOT_A_FUNCTION_     4105  ' not a function
define ERR#FUNC_NO_EXISTS_     4106  ' not a known function
define ERR#TOO_MANY_ARGS_      4107  ' too many arguments
define ERR#TOO_FEW_ARGS_       4108  ' not enough arguments
define ERR#CANNOT_OPEN_        4109  ' could not open file
define ERR#CANNOT_READ_        4110  ' could not read file
define ERR#NOT_CMD_FILE_       4111  ' not a command file
define ERR#CODE_FAILURE_       4112  ' code failure - went south
define ERR#NOT_A_NUMBER_       4113  ' not a number
define ERR#NOT_A_STRING_       4114  ' not a string
define ERR#BAD_ARRAY_INDEX_    4115  ' invalid array index value
define ERR#NOT_AN_ARRAY_       4116  ' not an array
define ERR#VAR_NO_EXISTS_      4117  ' external variable not found
define ERR#STR_TOO_LONG_       4118  ' string too long
define ERR#CANNOT_COMPILE_     4119  ' Compilation failed
define ERR#BAD_CHANNEL_        4120  ' Macro not running against proper window type
define ERR#IPC_TOO_BIG_        4121  ' ipc message too big
define ERR#IPC_BAD_CTL_        4122  ' illegal ipc control string
define ERR#IPC_NODATA_         4123  ' illegal data passed to ipc
define ERR#IPC_NOT_HELPER_     4124  ' Macro communicating with wrong window type
define ERR#IPC_BAD_CMD_        4125  ' ipc message sent with invalid command code
define ERR#TOO_MANY_WINDOWS_   4126  ' too many windows
define ERR#IN_CMD_MODE_        4127  ' you already have a command prompt
define ERR#BAD_WINDOW_         4128  ' invalid window number
define ERR#ELF_RELOAD_         4129  ' attempt to return thru overwritten package
define ERR#FILE_OPEN_          4130  ' file already open
define ERR#BAD_FILE_MODE_      4131  ' bad file open mode
define ERR#FILE_NOT_OPEN_      4132  ' file not open
define ERR#TOO_MANY_FILES_     4133  ' too many files open
define ERR#CANNOT_WRITE_       4134  ' file write failed
define ERR#ILLVAL_             4135  ' improper function argument value
define ERR#ESCAPE_             4136  ' cancelled
define ERR#NO_WINDOW_          4137  ' no window active
```

```

define ERR#NO_FIELD_READ_      4138      ' no field read active
define ERR#WRONG_MENU_         4139      ' executing in wrong menu
define ERR#BAD_DOC_NAME_       4140      ' illegal name for document
define ERR#RECURSIVE_          4141      ' recursion limit of 100 exceeded
define ERR#NOT_A_COMMAND_       4142      ' Not an installed command
define ERR#NOT_CMD_DOC_        4143      ' Not a command document
define ERR#APPLIX_NAME_        4144      ' collides with Applixware supplied name
define ERR#RESERVED_           4145      ' reserved word
define ERR#KEYWORD_            4146      ' keyword
define ERR#BAD_NAME_           4147      ' illegal characters
define ERR#ARRAY_TOO_BIG_      4148      ' array too big
define ERR#ARITHMETIC_         4149      ' arithmetic overflow/underflow
define ERR#WIN_TOOBIG_         4150      ' window too big
define ERR#NOMEMORY_           4151      ' out of memory
define ERR#NOSWAPSPACE_        4152      ' no swap space, close some windows!
define ERR#NORECURSION_        4153      ' recursion error
define ERR#BADSTEP_            4154      ' invalid for loop step value
define ERR#ERR_NOHELPPATALL_    4155      ' Help database not installed
define ERR#ERR_NOHELP_         4156      ' No help for this topic
define ERR#ERR_PRINTERNAME_    4157      ' !Invalid name for printer. It cannot include
spaces.
define ERR#ERR_BADREV_         4158      ' Macro file from prior version - recompile it
define ERR#ERR_NOIMAGE_        4159      ' No images detected, press HELP
define ERR#ERR_BADMACHINE_      4160      ' Macro file from prior version - recompile it
define ERR#ERR_BADPFNAME_      4161      ' Invalid name for print job file
define ERR#ERR_BADCOPIES_      4162      ' Invalid number of copies
define ERR#ERR_PRTBADPAGES_    4163      ' Invalid page range
define ERR#ERR_BADACCEL_       4164      ' Invalid key accelerator
define ERR#ERR_DUPACCEL_       4165      ' Duplicate key accelerator
define ERR#ERR_BIGSRCH_        4166      ' Directory search exceeded default limit. (Press
Help)
define ERR#ERR_PRINTJOB_       4167      ' Print job failed, file not created
define ERR#ERR_DUPMNEMONIC_    4168      ' Duplicate mnemonic
define ERR#ERR_NORECORD_       4169      ' Macro cannot be recorded.
define ERR#ERR_CANTINDENT_     4170      ' Cant indent here.
define ERR#ERR_BADHEIGHT_      4171      ' Invalid page height: must be between 0 and 32
inches
define ERR#ERR_BADWIDTH_       4172      ' Invalid page width : must be between 0 and 32
inches
define ERR#ERR_UNEXPECTED_     4173      ' Unexpected activity during program execution
define ERR#ERR_NOTOBJECT_      4174      ' not an object
define ERR#ERR_METHNOTINOBJECT_ 4175      ' Method not in object
define ERR#ERR_OBJNOTINOBJECT_ 4176      ' Object not contained by object
define ERR#ERR_OBJECTGONE_     4177      ' Object has already been destroyed

```

```

define ERR#ERR_SQLTOOMANYSTMTS_ 4178      ' Too many SQL statements prepared
define ERR#ERR_SQLUPDATE_         4179      ' Only one for-update statement can be prepared
define ERR#ERR_SQLMEMORY_         4180      ' Could not allocate memory
define ERR#ERR_SQLSTMTID_         4181      ' Invalid statement number
define ERR#ERR_SQLCURSID_         4182      ' Invalid cursor number
define ERR#ERR_SQLSERVER_         4183      ' Database server error
define ERR#ERR_SQLTIMEOUT_        4184      ' Command timeout
define ERR#ERR_SQLDATATYPE_       4185      ' Invalid SQL datatype
define ERR#ERR_SQLFETCH_          4186      ' Cannot fetch: Not a SELECT statement cursor
define ERR#ERR_SQLGATEWAY_        4187      ' SQL gateway error
define ERR#ERR_SQLERRNO_          4188      ' System error
define ERR#ERR_SQLARGS_           4189      ' macro argument error
define ERR#ERR_SQLINTERRUPT_      4190      ' SQL
                                        command interrupted
define ERR#ERR_SQLDEADLOCK_       4191      ' ODBC error
define ERR#ERR_SQLODBC_           4191      ' ODBC error
define ERR#ERR_FEEPERM_           10253     ' Not owner
define ERR#ERR_FEENOENT_          10254     ' No such file or directory
define ERR#ERR_FEESEARCH_         10255     ' No such process
define ERR#ERR_FEEINTR_           10256     ' Interrupted system call
define ERR#ERR_FEEIO_             10257     ' I/O error
define ERR#ERR_FEENXIO_           10258     ' No such device or address
define ERR#ERR_FEE2BIG_           10259     ' Arg list too long
define ERR#ERR_FEENOEXEC_         10260     ' Exec format error
define ERR#ERR_FEEBADF_           10261     ' Bad file number; possible over quota
define ERR#ERR_FEECHILD_          10262     ' No children
define ERR#ERR_FEEAGAIN_          10263     ' No more processes
define ERR#ERR_FEENOMEM_          10264     ' Not enough core
define ERR#ERR_FEEACCES_          10265     ' Permission denied
define ERR#ERR_FEEFAULT_          10266     ' Bad address
define ERR#ERR_FEENOTBLK_         10267     ' Block device required
define ERR#ERR_FEEBUSY_           10268     ' Mount device busy
define ERR#ERR_FEEEXIST_          10269     ' File exists
define ERR#ERR_FEEEXDEV_          10270     ' Cross-device link
define ERR#ERR_FEENODEV_          10271     ' No such device
define ERR#ERR_FEENOTDIR_         10272     ' Not a directory
define ERR#ERR_FEEISDIR_          10273     ' Is a directory
define ERR#ERR_FEEINVAL_          10274     ' Invalid argument
define ERR#ERR_FEENFILE_          10275     ' File table overflow
define ERR#ERR_FEEMFILE_          10276     ' Too many open files
define ERR#ERR_FEENOTTY_          10277     ' Not a typewriter
define ERR#ERR_FEETXTBSY_         10278     ' Text file busy
define ERR#ERR_FEEFBIG_           10279     ' File too large
define ERR#ERR_FEENOSPC_          10280     ' No space left on device

```

```

define ERR#ERR_FEESPIPE_ 10281 ' Illegal seek
define ERR#ERR_FEEROFS_ 10282 ' Read-only file system
define ERR#ERR_FEEMLINK_ 10283 ' Too many links
define ERR#ERR_FEEPIPE_ 10284 ' Broken pipe
define ERR#ERR_FEEDOM_ 10285 ' Argument too large
define ERR#ERR_FEERANGE_ 10286 ' Result too large
define ERR#ERR_FEEWOULDBLOCK_ 10287 ' Operation would block
define ERR#ERR_FEEINPROGRESS_ 10288 ' Operation now in progress
define ERR#ERR_FEEALREADY_ 10289 ' Operation already in progress
define ERR#ERR_FEEENOTSOCK_ 10290 ' Socket operation on non-socket
define ERR#ERR_FEEDESTADDRREQ_ 10291 ' Destination address required
define ERR#ERR_FEEMSGSIZE_ 10292 ' Message too long
define ERR#ERR_FEEPROTOTYPE_ 10293 ' Protocol wrong type for socket
define ERR#ERR_FEEENOPROTOOPT_ 10294 ' Protocol not available
define ERR#ERR_FEEPROTONOSUPPORT_ 10295 ' Protocol not supported
define ERR#ERR_FEESOCKTNOSUPPORT_ 10296 ' Socket type not supported
define ERR#ERR_FEEOPNOTSUPP_ 10297 ' Operation not supported on socket
define ERR#ERR_FEEPFNOSUPPORT_ 10298 ' Protocol family not supported
define ERR#ERR_FEEAFNOSUPPORT_ 10299 ' Address family not supported by
protocol family
define ERR#ERR_FEEADDRINUSE_ 10300 ' Address already in use
define ERR#ERR_FEEADDRNOTAVAIL_ 10301 ' Can't assign requested address
define ERR#ERR_FEEENETDOWN_ 10302 ' Network is down
define ERR#ERR_FEEENETUNREACH_ 10303 ' Network is unreachable
define ERR#ERR_FEEENETRESET_ 10304 ' Network dropped connection on reset
define ERR#ERR_FEECONNABORTED_ 10305 ' Software caused connection abort
define ERR#ERR_FEECONNRESET_ 10306 ' Connection reset by peer
define ERR#ERR_FEENOBUFS_ 10307 ' No buffer space available
define ERR#ERR_FEEISCONN_ 10308 ' Socket is already connected
define ERR#ERR_FEEENOTCONN_ 10309 ' Socket is not connected
define ERR#ERR_FEEESHUTDOWN_ 10310 ' Can't send after socket shutdown
define ERR#ERR_FEETOOMANYREFS_ 10311 ' Too many references: can't splice
define ERR#ERR_FEETIMEDOUT_ 10312 ' Connection timed out
define ERR#ERR_FEECONNREFUSED_ 10313 ' Connection refused
define ERR#ERR_FEELOOP_ 10314 ' Too many levels of symbolic links
define ERR#ERR_FEENAMETOOLONG_ 10315 ' File name too long
define ERR#ERR_FEEHOSTDOWN_ 10316 ' Host is down
define ERR#ERR_FEEHOSTUNREACH_ 10317 ' No route to host
define ERR#ERR_FEENOTEMPTY_ 10318 ' Directory not empty
define ERR#ERR_FEEPROCLIM_ 10319 ' Too many processes
define ERR#ERR_FEEUSERS_ 10320 ' Too many users
define ERR#ERR_FEEDQUOT_ 10321 ' Disc quota exceeded
define ERR#ERR_FEESTALE_ 10322 ' Stale NFS file handle
define ERR#ERR_FEEEREMOTE_ 10323 ' Too many levels of remote in path

```



```

define ERR#ERR_FEENOSTR_      10324  ' Device is not a stream
define ERR#ERR_FEETIME_      10325  ' Timer expired
define ERR#ERR_FEENOSR_      10326  ' Out of streams resources
define ERR#ERR_FEENOMSG_     10327  ' No message of desired type
define ERR#ERR_FEEBADMSG_    10328  ' Trying to read unreadable message
define ERR#ERR_FEEIDRM_      10329  ' Identifier removed
define ERR#ERR_FEEDEADLK_    10330  ' Deadlock condition.
define ERR#ERR_FEENOLCK_    10331  ' No record locks available.
define ERR#ERR_FEnotDoc_     10242  ' !File not a valid document type
define ERR#ERR_FEnoDir_      10243  ' !Not a directory
define ERR#ERR_FEnotRightSfx_ 10244  ' !File's content does not match file's extension
define ERR#ERR_FEBadType_    10245  ' !Illegal document type
define ERR#ERR_FEalreadyOpen_ 10246  ' !Document already open
define ERR#ERR_FEnoDelOpen_  10247  ' !Document open, cannot delete
define ERR#ERR_FEBadDoc_     10248  ' !No document here by that name
define ERR#ERR_FEtooLong_    10249  ' !Document name too long
define ERR#ERR_FEnameSpaces_ 10250  ' !Name cannot include embedded spaces
define ERR#ERR_FEBadName_    10251  ' !Illegal name for a document
define ERR#ERR_FEbadMachine_ 10414  ' !Document saved in binary form for another
machine.
define ERR#ERR_FEbadEntryName_ 10438  ' Illegal character in file entry name

```

## fileinf\_.am

```
/
#define SS#SFX "as"           ' Spreadsheet
#define DC#SFX "aw"           ' Word Processor
#define GE#SFX "ag"           ' Graphics editor
#define CE#SFX "am"           ' Command doc
#define SQ#SFX "aq"           ' Query doc
#define EQ#SFX "ae"           ' Equation doc
#define AB#SFX "ab"           ' Applixware Builder
#define BM#SFX "im"           ' Applixware Bitmap
#define ABD#SFX "abd"         ' Applixware Builder Distribution
#define ABO#SFX "abo"         ' Applixware Builder Turbo
#define AGO#SFX "ap"         ' Applixware SlideShow
'
' The following are file types (same is icon ids for windows)
,
define FSMAT#DIRECTORY      -1   ' System directory
define FSMAT#FILE           0    ' System file
define FSMAT#TEXT           1    ' Word Processor
define FSMAT#PICTURE       2    ' Graphics Editor
define FSMAT#SPREADSHEET   3    ' Spreadsheet
define FSMAT#COMMAND       4    ' ELF
define FSMAT#DIALOG        8    ' Dialog box
define FSMAT#BITMAP        9    ' Applixware Bitmap
define FSMAT#QUERY        10    ' Query
define FSMAT#EQUATION      12    ' Equation
define FSMAT#BUILDER       13    ' Applixware Builder
define FSMAT#BUILDER_TURBO 15    ' Applixware Builder Turbo
define FSMAT#SLIDE_SHOW    16    ' Applixware Slide show
,
' The following are the sort order keys for FS_QUERY_()
,
define FSSORT#NONE         0     ' unsorted
define FSSORT#A_DATE       2     ' by date ascending
define FSSORT#D_DATE       3     ' by date descending
define FSSORT#A_NAME       4     ' by name ascending
define FSSORT#D_NAME       5     ' by name descending

define FSSORT#NO_DIRS     32     ' Do not return directories; only files

format query_format
      name,                  'relative name of doc (suffix suppressed)
```

```

type,                ' FSMAT#...
datestamp,           ' time last modified
Kbytes,              ' size in Kbytes
rembytes,            ' remainder from kbytes
mode,                ' access mode (as in Unix rwxrwxrwx)
links,               ' number of hard Unix links
username             ' owner of file

' afile_info mirrors the c typedef AFileInfo, defined in afile.h
format afile_info
  encoding,          ' TRUE iff file is encoded
  version,           ' version number of current format
  docType,           ' as in doctypes.h
  original_version, ' version number of original document
  minimum_version,  ' last version capable of reading this file
  content_hint      ' arbitrary hint string
,
' Format associated with "Save As" calls and XX_get_doc_info@() calls.
,
format doc_format_
  name,              ' Pathname of doc
  docid,             ' Doc's unique filing identifier (while app is running)
  on_disk,           ' TRUE if file has been saved/read under this name
  save_mode,         ' 0-Normal, 1-Portable, 2...-special format
  grp_access,        ' 0-none, 1-read, 2-write
  all_access,        ' 0-none, 1-read, 2-write
  writeable,         ' TRUE if this user has write access
  orig_rev           ' revision of original file before conversions
,
' For files not yet written to disk (on_disk is false) then
' writable is true, save_mode is 0 and
' access rights are from the person's Unix defaults.
,
,
' Format for WRITE_DATA_FILE@(name,data,format) third argument.
,
format write_data_format@
  comments,          ' Array of strings to be added to file as comments
  grp_access,        ' 0-none, 1-read, 2-write
  all_access,        ' 0-none, 1-read, 2-write
  format afile_info file_header 'specs for header line
,

```

' Format for array returned by READ\_ELF\_FILE@(name)

format read\_elf\_format@

format write\_data\_format@ info, 'info about file  
data 'content as elf data array

## fonts\_.am

*/\* fonts.elf - contains info for working with fonts \*/*

*/\* indexes in order of normal presentation on choices lists \*/*

define FONTX#TM_X	0	<i>/*Times Roman*/</i>
define FONTX#BK_X	1	<i>/*ITC Bookman*/</i>
define FONTX#NC_X	2	<i>/*New Century Schoolbook*/</i>
define FONTX#ZPC_X	3	<i>/*ITC Zapf Chancery*/</i>
define FONTX#PL_X	4	<i>/*Palatino*/</i>
define FONTX#CO_X	5	<i>/*Courier*/</i>
define FONTX#HV_X	6	<i>/*Helvetica*/</i>
define FONTX#HN_X	7	<i>/*Helvetica Narrow*/</i>
define FONTX#AV_X	8	<i>/*ITC Avant Garde Gothic*/</i>
define FONTX#YM_X	9	<i>/*Symbol*/</i>
define FONTX#XPD_X	10	<i>/*Zapf Dingbats*/</i>

## graphics\_.am

```
.....
.....
' Basic graphic datatypes
,
.....

format gr_area@ x, y, width, height
format gr_point@ x, y
format gr_curve_point@
    x, y,
    format gr_point@ ctl1,
    format gr_point@ ctl2
format gr_path@
    format arrayof gr_curve_point@ pt

format gr_color@
    c, m, y, k,
    see_thru,
    ink_type,
    name

.....
.....
' Attribute formats
,
.....

format gr_fill_attr_type@ ' for part_fill, line_fill, and text_fill
    type, ' string: built-in <#>, <filename>, linear gradient
    fg_color, ' string: name of color in colormap
    bg_color, ' string: name of color in colormap
    angle, ' int: in degrees
    offset ' int: in mils (1000 mils = 1 inch)

format gr_shadow_attr_type@
    type, ' string: none, background drop shadow, local drop shadow
    color, ' string: name of color in colormap
    horizontal_offset, ' int: in mils (1000 mils = 1 inch)
    vertical_offset ' int: in mils (1000 mils = 1 inch)

format gr_line_style_type@
    style,
    weight,
```

first\_symbol,  
join\_symbol,  
final\_symbol

format gr\_text\_field\_attr\_type@  
horizontal\_alignment,  
vertical\_alignment,  
line\_space,  
horizontal\_scale,  
vertical\_scale,  
shear,  
angle,  
left\_margin,  
right\_margin,  
top\_margin,  
bottom\_margin

format gr\_text\_para\_attr\_type@  
left\_indent1,  
left\_indent2,  
right\_indent,  
bullet,  
bullet\_scale,  
bullet\_color,  
bullet\_face,  
bullet\_character\_code,  
space\_above,  
space\_below,  
line\_space

format gr\_text\_char\_attr\_type@  
face,  
size,  
ruling,  
strike\_thru,  
bold,  
italic,  
horizontal\_scale,  
shear,  
angle,  
horizontal\_offset,  
vertical\_offset,  
horizontal\_sub\_sup,  
vertical\_sub\_sup

format gr\_attribute@  
format gr\_fill\_attr\_type@ backfill,  
format gr\_fill\_attr\_type@ linefill,  
format gr\_shadow\_attr\_type@ shadow,  
format gr\_line\_style\_type@ line,  
format gr\_text\_field\_attr\_type@ field,  
format gr\_text\_char\_attr\_type@ char,  
format gr\_text\_para\_attr\_type@ paragraph

format gr\_poly\_text@  
format gr\_attribute@ attr,  
str

format gr\_thing@  
type,  
format gr\_point@ position,  
format gr\_area@ ink\_boundary,  
format gr\_attribute@ def\_attr,  
format arrayof gr\_path@ path,  
format arrayof gr\_poly\_text@ txt,  
id

format gradient\_info@  
name,  
type,  
angle,  
xoffset,  
yoffset

format gr\_audio@  
enable,  
volume,  
path

.....  
.....  
' Some type specific info  
,

.....  
format gr\_rect\_info@  
scale\_corners,  
x\_corner\_radius,  
y\_corner\_radius



format gr\_ellipse\_info@

angle1,  
angle2

format gr\_regular\_poly\_info@

start\_angle,  
n\_sides

.....  
.....  
' Callback info  
,

.....  
format gr\_callback\_info@

macro\_name,  
trigger\_on\_drag,  
trigger\_on\_single\_click,  
trigger\_on\_double\_click,  
argument\_list

format gr\_callback\_data@

type, "drag", "single click", "double click"  
object\_handle, ' ID of thing that callback is attached to  
format gr\_point@ down, ' mouse down position (current GR coords)  
format gr\_point@ up, ' mouse up position (current GR coords)  
argument\_list ' list of arguments specified by callback

.....  
.....  
' Editor state info  
,

.....  
format gr\_guides@

rulers,  
grids,  
coordinates,  
auto\_gridding,  
sticky\_points,  
page\_breaks,  
target\_viewmode,  
gridsize,  
device\_setup

' Layer info

```
,  
.....  
format gr_layer@  
    name,  
    locked,  
    hidden,  
    n_parts,  
    printable,  
    background
```

' Extrusion info

```
,  
.....  
format gr_extrusion@  
    projection,  
    horizontal,  
    vertical,  
    depth
```

' Slide/Page background and color scheme info

```
,  
.....  
format gr_color_scheme@  
    title_fg,  
    title_bg,  
    text_fg,  
    text_bg,  
    line_fg,  
    line_bg,  
    fill_fg,  
    fill_bg,  
    shadow_color,  
    accent_color
```

```
format gr_background@  
    format gr_fill_attr_type@ fill,  
    hide
```

```
format gr_slide_show@
```

transition,  
delay,  
enable\_builds,  
dim\_inactive\_bullets, dim\_color,  
build\_transition

format gr\_slide\_show\_options@  
full\_screen,  
all\_pages,  
page1,  
pageN,  
at\_end ' "restart", "exit", or "wait" (default)

format gr\_layout@  
type,  
object1,  
object2,  
object3,  
object4

.....  
.....  
' startup formats  
,  
.....

format gp\_data@  
startup\_mode,  
media\_type,  
title,  
subtitle,  
outline,  
filename

.....  
.....  
' Mouse info  
,  
.....

format gr\_mouse@  
window\_relative,  
button1,  
button2,  
button3,  
button4,

button5,  
shifted,  
controled,  
altd

.....  
.....  
' Inset info  
,

.....  
format gr\_inset@

clear\_mode, ' "none", "widget", "window"  
scale\_mode, ' "clip to fit", "scale to fit", "scale if clips"  
proportional, ' true or false, used when scaling  
prescale\_x, ' applied regardless of scale mode - 100 is 1X  
prescale\_y, ' applied regardless of scale mode - 100 is 1X  
format gr\_area@ src, ' source pos and size in current graphic units  
format gr\_area@ dst, ' destination pos and size in current graphic units  
format gr\_area@ clip, ' clip pos and size in current graphic units  
display\_mode, ' special display effects  
toggle\_wait\_cursor, ' should the inset display the wait cursor  
page\_number, ' which page in the graphic to inset  
widget, ' widget to draw onto  
audio\_enable, ' audio enable  
audio\_volume, ' audio volume  
audio\_path ' audio path name to use

.....  
.....  
' pre rev3.0 formats  
,

.....  
format gr\_guides\_

rulers,  
grids,  
coordinates,  
auto\_gridding,  
sticky\_points,  
page\_breaks,  
target\_viewmode,  
gridsize,  
device\_setup

format gr\_line\_atts\_

pattern,  
style,  
thickness,  
arrowheads,  
arrowstyle

format gr\_text\_atts\_  
style,  
size,  
bold,  
italics,  
underline,  
justify

format gr\_color\_atts\_  
foreground\_color,  
background\_color,  
reverse\_mode,  
transparent\_mode

format gr\_color\_attrs\_  
foreground\_color,  
background\_color,  
line\_foreground\_color,  
line\_background\_color,  
shadow\_color,  
transparent\_mode

format ge\_part\_attribute\_  
fill\_fg\_color, fill\_bg\_color, fill\_type, fill\_id,  
shadow, shadow\_color, shadow\_x, shadow\_y,  
line\_fg\_color, line\_bg\_color, line\_type, line\_id,  
line\_width, line\_style, line\_end1, line\_end2, line\_symbol,  
face, size, weight, slant, ruling, alignment,  
layer\_id,  
user\_id

## hdrftr\_.am

```
'  
'  
' HEADERS/FOOTERS/MARGINS  
'  
1.                                0 headers/footers data structure  
  
format hdrftr_group_  
    text,                          ' text of the header/footer segment  
    face,                           ' a string  
    size,                            ' a string  
    color,                           ' a string  
    bold,                             ' true/false  
    italic,                           ' true/false  
    strike,                           ' true/false  
    underline,                        ' 0-none, 1-single, 2-double  
    word_underline                    ' word underline only true/false  
  
format hdrftr_line_info  
    format hdrftr_group_ inner,  
    format hdrftr_group_ centr,  
    format hdrftr_group_ outer  
  
format hdrftr_pg_info  
    hdr_offset,  
    ftr_offset,  
    format hdrftr_line_info hdr,  
    format hdrftr_line_info ftr  
  
format hdrftr_info  
    special_even_odd,  
    special_first,  
    special_final,  
    format hdrftr_pg_info base,  
    format hdrftr_pg_info even,  
    format hdrftr_pg_info odd,  
    format hdrftr_pg_info first,  
    format hdrftr_pg_info final  
  
format print_info@  
    height, width,  
    upper_margin,  
    lower_margin,
```

inner\_margin,  
outer\_margin,  
bleed,  
landscape,  
crop\_marks,  
registration\_marks,  
content\_border,  
printer,  
printable\_x\_pos,  
printable\_y\_pos,  
printable\_width,  
printable\_height

.....  
'pre 3.0 data structures  
.....

format hdrftr\_data\_  
left\_margin, ' left content offset  
right\_margin, ' right content offset  
top\_margin, ' top content offset  
bottom\_margin, ' bottom content offset  
header\_margin, ' where to begin header from top of paper  
footer\_margin, ' where to begin footer from bottom of paper  
swap\_margins, ' true/false, swap e/o margins for book printing  
first\_page\_special, ' true/false  
even\_pages\_special, ' true/false  
format hdrftr\_group\_info ' array of 2\*XTRA\_HF\_LINES\*3

format page\_setup\_  
height,  
width,  
landscape

## links\_.am

```
.....
' Recognize Info
,
format recognize_info@
    docType,
    appType,
    filterMacro,
    launchMacro

.....
' Doc Link Info
,
format doc_links_info@
    format arrayof link_info@ links,
    format arrayof object_link_info@ objects

.....
' Link Info
,
format link_info@
    name,          ' string:    linked file name
    docType,       ' int:      doc type returned by
                  '          RECOGNIZE_FILE_INFO@
    appType,       ' int:      app type returned by
                  '          RECOGNIZE_FILE_INFO@
    filterMacro,   ' string:   import filter macro
    launchMacro,   ' string:   macro to launch application
    externalRefName, ' string:   reference in linked doc
    internalRefName, ' string:   reference in parent doc
    format arrayof doc_links_info@ info

.....
' Object Link Info
,
format object_link_info@
    name,          ' string:   object name
    docType,       ' int:      doc type returned by
                  '          RECOGNIZE_FILE_INFO@
    appType,       ' int:      app type returned by
                  '          RECOGNIZE_FILE_INFO@
    filterMacro,   ' string:   import filter macro
    launchMacro,   ' string:   macro to launch application
```



internalRefName, ' string: reference in parent doc  
allowUnreferenced, ' int: TRUE->save even if not  
, referenced  
format arrayof doc\_links\_info@ info

## menubar\_.am

```
,
' Menu bar control info
,
format menu_bar_info_      ' definition of a menu item
    name,                  ' name to display in menu
    value,                 ' macro to invoke (or option to return to
                           ' dialog macro)
    key,                   ' accelerator key
    key_only,              ' if not false, macro is not displayed in menu
                           ' bar
    tool_display,          ' if not false, button is displayed in tool bar
    bitmap,                ' optional name of toolbar bitmap
    toolword,              ' mnemonic to use in toolbar
    tootype,               ' type of button in toolbar (bitmap,
                           ' mnemonic, name)
    menu_key               ' keyboard mnemonic for operation of
                           ' pulldown
,
' Type of button for display in toolbar
,
define TOOLTYPE#NAME      0   ' use menubar name
define TOOLTYPE#BITMAP    1   ' use bitmap
define TOOLTYPE#TOOLWORD  2   ' use mnemonic
,
' Menu status values for use with the db_menu_status@ macro.
,
define MENUSTAT#NORMAL    0   ' display normally
define MENUSTAT#DIMMED    1   ' display grayed
define MENUSTAT#TOGGLE_ON 2   ' toggle on to left
define MENUSTAT#TOGGLE_OFF 3  ' is a toggle, but off now
define MENUSTAT#RADIO_OFF 4   ' is a radio, currently off
define MENUSTAT#RADIO_ON  5   ' radio on to left
define MENUSTAT#NO_SHOW   6   ' suppress display altogether
,
' Names of menu bar files.
,
define ME#BAR#NAME_       ".ax_me3"
define WP#BAR#NAME_       ".ax_wp3"
define DD#BAR#NAME_       ".ax_dd3"
define GR#BAR#NAME_       ".ax_gr3"
define PX#BAR#NAME_       ".ax_px3"
define MM#BAR#NAME_       ".ax_mm3"
```

```

define SS#BAR#NAME_      ".ax_ss3"
define IN#BAR#NAME_      ".ax_inb3"
define ML#BAR#NAME_      ".ax_mail3"
define DLGKEY#NAME_      ".ax_dlg3"
define DE#BAR#NAME_      ".ax_de3"
define SQ#BAR#NAME_      ".ax_sq3"
define DE_DEFS#BAR#NAME_ ".ax_ddf3"
define DE_FLOAT#BAR#NAME_ ".ax_dfmb3"
define EQ#BAR#NAME_      ".ax_eq3"
define SSPR#BAR#NAME_    "ax_sspr4"
define OMSND#BAR#NAME_   "ax_omsnd"
define OMIBX#BAR#NAME_   "ax_ominb"
define OMRD#BAR#NAME_    "ax_omrd"
define DE_COLPAL#BAR#NAME_ "ax_dcolr"
define HE#BAR#NAME_      "ax_help"      ' help words window
define BC#BAR#NAME_      "ax_cont"      ' book contents window
define BW#BAR#NAME_      "ax_book"      ' book words window
define TUT#BAR#NAME_      "ax_tut"      ' tutorial words window
define SSPG#BAR#NAME_    "ax_sspg4"
define HTML#BAR#NAME_    "ax_html4"

define OME#BAR#NAME_     "ax_ome4" ' Builder Object Method
                          Editor
define AB#MAIN#BAR#NAME_ "ab_bld4" ' Builder Main Window
define AB#BROWSE#BAR#NAME_ "ab_brw4" ' Builder Class
                          Browser
define AB#DEBUG#BAR#NAME_ "ab_dbg4" ' Builder Debugger
define AB#BLDRT#BAR#NAME_ "ab_brt4" ' Builder Run Time

```

## mail\_.am

```
/*  
* the format for shared folder, information of shared folder  
*/
```

```
format sync_table_  
    folder_name,  
    mod_time,  
    format inb_item folder_contents,  
    flag,  
    access_mode,  
    remote_host
```

```
/*  
* The format for an individual mail message in the Inbox  
*/
```

```
format inb_item  
    from,                ' sender (for reply)  
    reply,               ' Reply by string  
    date,               ' date (text)  
    subject,  
    status,            ' status flags  
    file,              ' path to attachments  
    forward,          ' forward history  
    comment,  
    ldate,            ' send date as a long  
    alreply,          ' alternate recipient for reply; (corresponds to the Reply-To field)  
    lfrom,            ' long name of sender  
    mid,             ' unique message id  
    response,        ' date response sent to certmail sender  
    color,           ' inbox message display color  
    reserved1,  
    reserved2,  
    reserved3
```

```
format folder_info_  
    folder_name,  
    folder_type,      ' "private" or "shared"  
    format access_data access_info,
```

```

    owner,                ' the true folder owner
    supress,              ' supress notifier for this folder
    unused1,
    unused2,
    unused3

format access_data
    readers,              ' list of folder readers
    writers,              ' list of folder writers
    deleters              ' list of folder deleters

format rule_info_
    title,
    macro_t,
    active,
    unused1,
    unused2,
    unused3

/*
 * structure of foreign file info
 */
format ff_info_
    doctype,
    small_bitmap,
    large_bitmap,
    launch_cmd,
    launch_mode,
    unused_1,
    unused_2

/*
 * doc recipient preferences format
 */

' note: user's may provide an alternate function that maintains
' this data outside of Applixware, but it must be returned in this
' format...

format mail_recip_prefs_
    username,            ' recipient name
    wp_pref,              ' wp doc format pref

```

```

gr_pref,          ' gr doc format pref
ss_pref,         ' ss doc format pref
wp_pref_func,   ' wp conversion func
gr_pref_func,   ' gr conversion func
ss_pref_func,   ' ss conversion func
mac_user,       ' true or false (for mac hdr)
fax_phone,      ' phone number as dialed
fax_longname,   ' full name for header page
fax_send_time,  ' deferred send time or 0
mime,          ' true or false (wants mime)
dd_pref,        ' dd doc format pref
dd_pref_func,   ' dd conversion func
unused1,
unused2,
unused3,
unused4

```

```

/*
 * FAX format data - a subset of mail_recip_prefs_ passed to
 * customer supplied FAX macros
 */

```

```

format fax_info_
    recipient,    ' recipient name
    phone,        ' fax phone number
    longname,     ' full name for header page
    sendtime     ' deferred send time or 0 (now)

```

```

/*
 * the format for a selection in an editbox
 */

```

```

format selection_info_
    start_line,
    start_col,
    end_line,
    end_col

```

```

format sm_message_
    to_recips,
    cc_recips,
    bc_recips,

```

```
files,  
ftypes,  
encodes,  
wp_pref,  
gr_pref,  
ss_pref,  
dd_pref
```

```
format mail_recip_info_  
name,  
class,  
wp_pref,  
gr_pref,  
ss_pref,  
dd_pref
```

```
/*  
 * attribute definitions for mail macros  
 */
```

```
define MAIL#SUBJECT_          0  
define MAIL#SENDER_          1  
define MAIL#DATE_            2  
define MAIL#COMMENT_        3  
define MAIL#BODY_            4  
  
define MAIL#ALL_DATES_       0  
define MAIL#YESTERDAY_       1  
define MAIL#TODAY_           2  
define MAIL#DATE_RANGE_      3  
  
define TRUE_TERM              2  
define FALSE_TERM            3  
define OVERRIDE_SAFETYNET    10  ' allows for disposal of message  
define SUPPRESS_NOTIFIER     100  ' no notifier for this message  
  
define LAUNCH_TYPE_SHCMD     0    ' launch foreign file w/shell cmd  
define LAUNCH_TYPE_AXMACRO   1    ' launch foreign file as * macro
```

```

/*
 * Shared folder data...
 */

define BB#SVR 4137

define BB#SERVER_NAME NXLT("bb server")

' request types...
define BB#REGISTER                0
define BB#SYNC                    1
define BB#GET_INFO                2
define BB#TERM                    3
define BB#FOLDER_LIST             4
define BB#MESSAGE_LIST           5
define BB#MESSAGE_INFO           6
define BB#FOLDER_INFO            7
define BB#MESSAGE_UPDATE         8
define BB#MESSAGE_ADD            9
define BB#MESSAGE_DELETE        10
define BB#FOLDER_ACCESS         11
define BB#ENV_INFO              12
define BB#GET_FILE              13
define BB#DELETE_FILE          14
define BB#GET_VERSION           15

' ack types...
define BB#SYNC_ACK              21
define BB#INFO_ACK              22
define BB#TERM_ACK              23
define BB#UPDATE_ACK            24
define BB#UPDATE_ERROR          25
define BB#UNKNOWN_CMD           26

format bb_request_
    caller,
    type,
    message,
    unused1,
    unused2,
    unused3

```



```
format pending_message_  
  to_recips,  
  cc_recips,  
  bc_recips,  
  subject,  
  msgbody,  
  attfiles,  
  reply_state,  
  reply_text,  
  urgent_state,  
  certified_state,  
  encrypt_state,  
  outbox_state,  
  addrecip_state,  
  is_signed
```

```
/*
```

```
* format for mailed document conversion options
```

```
*/
```

```
format mail_format_array_  
  name,           ' name of conversion format (text)  
  filtnac,       ' name of conversion function  
  extension,     ' extension for converted document  
  doctype       ' Applixware magic number for output file
```

## spsheet\_.am

```
' SS_PUTCELL@()
,
format ss_putcell_info_
    cell,          ' A1
    value,         ' num,string,formula
    nouupdate     ' if true don't update display yet !!
,
' Array index positions for SS_GET_STATUS:
,
define SSSDEX#OPEN_COL_    0
define SSSDEX#OPEN_ROW_    1
define SSSDEX#AUTO_CALC_   2
define SSSDEX#CALC_MODE_   3
define SSSDEX#EDIT_MODE_   4
define SSSDEX#POINT_MODE_  5
define SSSDEX#BOTTOM_COL_  6
define SSSDEX#BOTTOM_ROW_  7
,
format ss_status_
    open_col,
    open_row,
    auto_calc,          ' 1-auto, 0-manual
    calc_mode,          ' 0-normal, 1-row, 2-column
    edit_mode,
    point_mode,
    bottom_col,
    bottom_row,
    auto_graphing,
    calc_count,         ' 1-10 (not used for normal calc mode)
    font_size,
    print_size,
    text_align,
    num_align,
    num_style,
    num_prec,
    bold,
    face,
    underline,
    italic,
    color,
    gridstyle,
    wrap_text,
```

```

    open_sheet,
    bottom_sheet,
    defcolwidth,      ' default col width
    minimal_recalc,
    calc_interval

,
' Calc modes for SS_GET_STATUS:
,
define SSS#NORM_CALC_ 0
define SS#ROW_CALC_ 1
define SSS#COL_CALC_ 2

,
' Format of a graph object as returned by SS_GET_GRAPH
,
format bg_graph_info_
    id,                ' numeric id of this graph
    task_id,           ' task id of graph if open (otherwise 0)
    name,              ' of doc
    type,              ' pie, bar...
    title,             ' As on graph "settings" menus
    subtitle,          ' As on graph "settings" menus
    display_title,     ' As on graph "settings" menus
    value_title,       ' As on graph "settings" menus
    group_labels,      ' As on graph "settings" menus
    display_labels,    ' As on graph "settings" menus
    data,
    legend_source,
    xygrp

format ge_graph_info_
    id,                ' numeric id of this graph
    task_id,           ' task id of graph if open (otherwise 0)
    name,              ' of doc
    type,              ' pie, bar...
    title,             ' As on graph "settings" menus
    subtitle,          ' As on graph "settings" menus
    display_title,     ' As on graph "settings" menus
    value_title,       ' As on graph "settings" menus
    group_labels,      ' As on graph "settings" menus
    display_labels,    ' As on graph "settings" menus
    data,
    unused,

```

xyGroups,  
legend\_source

format named\_range\_format\_  
name, ' name (local alias for ISR's)  
range, ' location (insertion point for isrs)  
docname, ' ISR - supporting doc's name  
docrange, ' ISR - supporting doc's range  
use\_linked\_attrs 'ISR - use attrs from the linked spreadsheet

format ss\_style\_  
style,  
precision,  
invisible

format ss\_protection\_  
protected,  
invisible

format range\_attr\_  
bold, ' 0 = No Bold ; 1 = Bold  
italic, ' 0 = No Italic ; 1 = Italic  
underline, ' 0 = No underline ; 1 = underline  
dbl\_underline, ' 0 = No double underline  
' 1 = double underline  
color, ' String name of a color, as  
' displayed in the color palette of  
' the Format ® Document Settings  
' dialog box.  
typeface, ' String name of typeface  
align, ' 0 = default  
' 1 = Left  
' 2 = Right  
' 3 = Repeat  
ptsize, ' an integer indicating the point size of the  
' text in the range.  
wrap\_text, ' 0 = No text wrap ; 1 = wrap text  
valign ' 0 = default  
' 1 = Top  
' 2 = Center  
' 3 = Bottom

,  
' defines for array elements in globals for ss\_get\_globals() & ss\_set\_globals()

```

format ss_globals_
    last_fill_start , ' Start value from Edit -> Fill
    last_fill_incr, ' increment value from Edit -> Fill
    last_fill_stop, ' stop value from Edit -> Fill
    last_num_style , ' Last applied number style. The
                    ' Number styles are displayed in the
                    ' Format -> Numbers dialog box.

    last_date_style ' Last applied Date Style
    last_num_prec, ' Last applied Numeric Precision
    current_width, ' Current cell width. 0 indicates the default
                  ' width

    go_sdirection, ' 0 = Next    1 = Previous
    go_search, ' Text to search for as specified on the
              ' Edit -> Find -> Text dialog

    go_spl_direction, ' 0 = Next    1 = Previous
    go_special, ' Cell Status as specified on the
              ' Edit -> Find -> Cell Status dialog

    go_range, ' Named Range
    go_cell, ' Cell Location as specified on the Edit ->
            ' Find -> Cell menu

    name_change, ' Reserved for future use
    currtitles, ' Last applied in the Spreadsheet
    current_height ' Reserved for future use

```

```

format pagebreaks_info_
    total,
    rows,
    cols

```

```

format ss_line_attrs
    style,
    color

```

```

format ss_shade_attrs
    style,
    fgcolor,
    bgcolor

```

```

format borders_info_
    format ss_line_attrs outline,
    format ss_line_attrs top,
    format ss_line_attrs bot,
    format ss_line_attrs left,

```

```
format ss_line_attrs right,
format ss_shade_attrs shading
```

```
'color table
```

```
format ss_color@
    name,
    cyan,
    magenta,
    yellow,
    black
```

```
,
```

```
' SS Object Types
```

```
,
define SSOBJ#GRAPHICS_ 0x01 /* Applixware Graphics objects */
define SSOBJ#CHART_ 0x02 /* Charts */
define SSOBJ#EQUATION 0x04 /* Applixware Equation objects */
define SSOBJ#AUDIO_ 0x08 /* Audio */
define SSOBJ#BUTTON_ 0x10 /* Buttons */
define SSOBJ#SPREADSHEET_ 0x20 /* Applixware Spreadsheet objects */
define SSOBJ#WORDS_ 0x40 /* Applixware Words objects */
define SSOBJ#DATA_ 0x80 /* Applixware Data objects */
define SSOBJ#HTML_ 0x100 /* Applixware HTML objects */
define SSOBJ#BUILDER_ 0x200 /* Applixware Builder */
define SSOBJ#UNKNOWN_ 0x400 /* Unknown Objects */
define SSOBJ#ALL 0xFFFF /* not used */
```

```
' Business Graph
```

```
,
```

```
format ss_graph_info_
    id, ' ss internal id
    task_id, ' non-zero if graph is open
    name ' filename
```

```
' Cell/Range
```

```
,
```

```
format ss_range_
    left_col,
    top_row,
    right_col,
    bottom_row,
    start_sheet,
    end_sheet
```

```

format ss_cell_addr_
    col,
    row,
    sheet,
    abs_col,
    abs_row,
    abs_sheet

```

```

format ss_page_setup_
    width, /* width of page in inches( cms if in metric mode ) */
    height, /* height of page in inches( cms if in metric mode ) */
    lmargin, /* left margin */
    rmargin, /* right margin */
    tmargin, /* top margin */
    bmargin, /* bottom margin */
    landscape,
    center_halign,
    center_valign,
    prt_headers,
    facing_pages,
    print_to_fit,
    num_pages_wide,
    num_pages_tall,
    no_print_beyond_last_cell,
    print_gridlines /* TRUE if to print grid lines on */
    paper_type /* a number from 0 to 17 for different
                paper types
                e.g. of a paper type is "US Letter" */
,

```

```

' SS_GET_CELL@() values for the type field in ss_cell_
,

```

```

define SSC#CELL_NUM_FORMULA 100
define SSC#CELL_TEXT_FORMULA 101
define SSC#CELL_BOOL_FORMULA 102
define SSC#CELL_OBSOLETE 103
define SSC#CELL_ERROR 104
define SSC#CELL_NA 105
define SSC#CELL_PENDING 106
define SSC#CELL_CIRCULAR 107
define SSC#CELL_DIVZERO 108
define SSC#CELL_UDEFNAME 109
define SSC#CELL_NUMERR 110

```

```

define SSC#CELL_TYPERR          111
define SSC#CELL_REFERR         112
define SSC#CELL_ARGERR         113
define SSC#CELL_FAILERR        114
define SSC#CELL_DBERR1         115
define SSC#CELL_DBERR2         116
define SSC#CELL_DBERR3         117

```

```

define SSC#CELL_NUMERIC        200
define SSC#CELL_TEXT           201
define SSC#CELL_EMPTY          204
define SSC#CELL_NA_VAL         205
define SSC#CELL_ERROR_VAL      206

```

```

'cell styles - style_type field in ss_cell_
define SSC#STYLE_UNSTYLED 0
define SSC#STYLE_BOOL      1
define SSC#STYLE_GENERAL  2
define SSC#STYLE_FIXED     3
define SSC#STYLE_SCIENCE  4
define SSC#STYLE_MONEY     5
define SSC#STYLE_COMMA     6
define SSC#STYLE_PERCENT  7
define SSC#STYLE_DATE      8
define SSC#STYLE_GRAPH     9
define SSC#STYLE_TIME     10
define SSC#STYLE_DEFAULT  11
define SSC#STYLE_TEXT     15

```

```

'cell justification values - just field in ss_cell_
define SSC#JUST_LEFT      1
define SSC#JUST_RIGHT    2
define SSC#JUST_CENTER    3
define SSC#JUST_REPEAT    4

```

```

format ss_cell_
    row,          ' zero based column number, as passed
    col,          ' zero based row number, as passed
    type,         ' cell type, see below
    display_str,' as displayed in the grid
    entry_str,   ' as displayed in the editline
    style_type,  ' display style type
    just,        ' type of justification
    wrap_text,   ' true if wrap_text justification is on,valid only for textcells

```



protected, ' true if protected, false if not protected  
invisible, ' true if invisible, false if visible  
precision, ' extent of display style  
value, ' current value if cell is numeric  
sheet, ' zero based sheet number  
valign ' vertical alignment

format ss\_chart\_datum@

display\_type,  
label\_x\_offset,  
label\_y\_offset,  
label\_string,  
x, y, z

format ss\_chart\_group@

type, stack\_id, custom\_part\_name,  
name,  
user\_str, /\* the group name as displayed to the user \*/  
x\_axis,  
y\_axis,  
z\_axis,  
label\_x\_offset,  
label\_y\_offset,  
label\_alignment,  
label\_type,  
legend\_string,  
series,  
main\_type,  
option, 'the % explosion value for pie charts  
format arrayof gr\_attribute@ attr,  
format arrayof gr\_attribute@ l\_attr,  
format arrayof chart\_number\_format@ label\_format,  
format arrayof chart\_datum@ data,  
hidden,  
data\_range

format ss\_chart\_axis\_info@

axis\_str, 'name of axis  
axis\_rngstr,  
format chart\_axis\_info@ axis\_info, 'axis info struct  
format gr\_attribute@ l\_attr, 'axis label attributes  
format gr\_attribute@ t\_attr, 'tick label attributes  
format gr\_attribute@ axis\_attr 'axis attributes

```

format ss_chart_
    chart_type,          ' chart type pie, bar...
    series,              ' all data ranges as strings !!!
    axes,                ' list of axes
    format arrayof chart_titles@ titles,
    format arrayof chart_legend@ legend,
    format arrayof gr_attribute@ title_attr,
    format arrayof gr_attribute@ subtitle_attr,
    format arrayof gr_attribute@ footer_attr,
    format arrayof gr_attribute@ leg_title_attr,
    format arrayof gr_attribute@ leg_box_attr,
    format arrayof gr_attribute@ leg_label_attr,
    format arrayof gr_attribute@ minx_attr,
    format arrayof gr_attribute@ miny_attr,
    format arrayof gr_attribute@ majx_attr,
    format arrayof gr_attribute@ majy_attr,
    format arrayof gr_attribute@ back_attr,
    format arrayof chart_decorations@ decs,
    format arrayof ss_chart_group@ grp,
    format arrayof ss_chart_axis_info@ x_axes,
    format arrayof ss_chart_axis_info@ y_axes,
    format arrayof ss_chart_axis_info@ z_axes
,
'Aster*x Chart Info known in the Spreadsheet
,
format ss_chart_info_
    task_id,            ' task id of graph if open (otherwise 0)
    name,              ' of chart
    main_type,
    dataoffset,        ' index to start of data group (after titles & axes)
    format arrayof ss_chart_data,
    axis_labels,      ' 1st y axis labels (2.1)
    legends,
    orient,
    path,              ' Path to TempFile/External Link
    extlink,           ' if TRUE path is to an external link
    extname,           ' name of chart in external GE file
    bar_overlap,
    bar_margin,
    groups_inited,    'true groups initialized for external charts only
    chart_type,       ' main chart type
    tmargin,          'top margin

```

```

    bmargin,          'bot margin
    lmargin,          'left margin
    rmargin,          'right margin
    null_format,     'span,grap or substitute zero for null points
    gfx,              'the graphic
    reformat          'true if chart needs to be reformatted

```

```

format ss_chart_attrs_
attr,                /* the actual attributes */
in_use               /* true if in use, false if not in use */

```

```

#define SS_GRAPH_NAMES 0x1 /* these match Graphic Object Types in ssdefs.h */
#define SS_CHART_NAMES 0x2
#define SS_AUDIO_NAMES 0x8
#define SS_BUTTON_NAMES 0x10

```

```

#define SS_RANGE_NAMES 0x100
#define SS_VIEW_NAMES 0x200

```

```

/* both fields == 0 gets ALL external and internal References */
#define SS_EXT_NAMES 0x400 /* if set get ONLY external References */
#define SS_INT_NAMES 0x800 /* if set get ONLY internal References */

```

```

#define FIRST_DATA_GROUP 9 ' default 1st data group
#define SS_MAIN_TITLE 0 ' match what's ssdefs.h
#define SS_SUB_TITLE 1
#define SS_FOOTER 2
#define SS_LEGEND_TITLE 3
#define SS_LEGEND 4

```

```

#define SS_X_AXIS_TITLE 5
#define SS_X_AXIS_LABELS 6

```

```

#define SS_Y_AXIS_TITLE 7
#define SS_Y_AXIS_LABELS 8

```

```

format ss_group_info_
main_type,
series,
gnames

```

```

format ss_data_range_
series,              'list of range vectors
legend_range,        'legend range vector

```

axis\_range            'axis range vector

format ss\_currency@

currency\_str, 'the currency string itself

european,            'true if european, false if english

trailing            'true if trailing, false if leading

format ss\_legend\_descr@

group\_name,        'the name of the data group

cell                'the cell containing the legend

format ss\_name\_spec@

name,

range\_str

format ss\_cell\_attrs@

bold,                /\* true if bold, false if not bold, null if As Is \*/

italic,              /\* true if bold, false if not bold, null if As Is \*/

underline,         /\* 0 for none, 1 for single, 2 for double, null for As Is \*/

face, /\* facename as a string, or null for As Is \*/

color, /\* color \*/

ptsize, /\* point size null or 6,8,12,14,18,24,36 \*/

align, /\* 0 for none, 1 for left, 2 for right, 3 for center, 4 for repeat \*/

style,

prec

format ss\_user\_format@

str,

format ss\_cell\_attrs@ attr

format ss\_object\_

  type,

  name, ' button text

  path,

  x,

  y,

  wid,

  hyt,

  anchor\_cell,

  cellrng,

  macro\_to\_run,

  follow\_move,

  follow\_resize,

  hidden,

```
    locked,  
    print,  
    extlink, ' if TRUE path is to an external link  
task_id, ' non-zero if task is running  
    background ' Object is open in the background (for fast updating)
```

```
format ss_obj_info@
```

```
    name,  
    type,  
    property,  
    hidden,  
    locked,  
    extlink,  
    print,  
    path,  
    macro_to_run,  
    no_border,  
    title
```

```
bitmap_path,
```

```
    filter_macro
```

```
format ss_cell_loc@
```

```
    column,  
    row,  
    sheet
```

```
format ss_object_loc@
```

```
    format ss_cell_loc@ top_left,  
    format ss_cell_loc@ bot_right,  
    xoff1, yoff1,  
    xoff2, yoff2
```

```
format ss_object_pos_
```

```
    x, y,  
    wid,  
    hyt
```

```
format ss_object_state_
```

```
    task_id,  
    background,  
    gfx
```

```
format ss_current_chart@
```

```
    charts, /* array of selected charts */
```

```

    gfx          /* the graphics pointer */

format ss_calc_options@
    mode,
    style,
    iteration_count,
    calc_interval,
    auto_chart,
    calc_background, /* this is obsolete as of rev 4.2 */
    calc_on_display, /* this is obsolete as of rev 4.2 */
    calc_rtinsert_on_display,
    calc_only_obsolete_cells,
    type_conversion,
    no_subscribe_rt_on_open,
    calc_only_cells_onscreen,
    optimal_calc      /* calculate dependent formulas */
                        /* only if cells value really changed */
    calc_before_save, 'not used
    no_register_od_on_open, ' used for stop od cells from getting registered
                        ' during file open
    no_register_rti_on_open

' column, row, sheet, paired-column, paired-row, paired-sheet : 0,1,2,3,4,5
format chart_step_order@
    ch_order,
    use_columns,
    use_rows

format chart_step_titles@
    title,
    subtitle,
    footer,
    x_axis,
    y_axis
    legend

' SS_GET_CELL_INFO@() is a an obsolete macro, DON'T use it. Use SS_GET_CELL@() instead
' SS_GET_CELL_INFO() array indexes
,

define SSCDEX#COL_NUM_    0 ' zero based column number, as passed
define SSCDEX#ROW_NUM_   1 ' zero based row number, as passed
define SSCDEX#CELL_TYPE_ 2 ' cell type, see below

```

```

define SSCDEX#DISP_STR_      3 ' grid display string
define SSCDEX#ENTRY_STR_    4 ' entry line string
define SSCDEX#PROTECTED_    5 ' whether the cell is protected
define SSCDEX#STYLE_TYPE_   6 ' display style type
define SSCDEX#PRECISION_    7 ' extent of display style
define SSCDEX#VALUE_        8 ' current value if cell is numeric

```

```

format ss_cell_info_
  col,          ' zero based column number, as passed
  row,          ' zero based row number, as passed
  type,        ' cell type, see below
  display_str, ' grid display string
  entry_str,   ' entry line string
  protected,   ' whether the cell is protected
  style_type,  ' display style type
  precision,   ' extent of display style
  value,       ' current value if cell is numeric
  sheet
,

```

```

' Cell Status codes as returned in SS_GET_CELL_INFO()
,

```

```

define SSC#CELL_IS_EMPTY_    0 ' Has no content
define SSC#CELL_IS_FORMULA_  1 ' Contains a valid formula.
define SSC#CELL_IS_CONSTANT_ 8 ' Is a constant number.
define SSC#CELL_IS_LABEL_    9 ' Is a label
define SSC#CELL_IS_OBSOLETE_ 2 ' needs to be recalculated
define SSC#CELL_IS_ERROR_    3 ' Has the ERROR value
define SSC#CELL_IS_NA_       4 ' Has the NA value
define SSC#CELL_IS_PENDING_  5 ' References an empty cell.
define SSC#CELL_IS_CIRCULAR_ 7 ' Is a member of a circularity.
define SSC#CELL_IS_STRFORMULA_ 11 'Is a string formula

```

```

format ss_view_pair@
  first, /* start of visible row/col block */
  last  /* end  of visible row/col block */

```

```

format ss_row_pair@
  row,      '0 based row number
  height    'height of the row in points */

```

```

format ss_col_pair@
  col,      '0 based column number
  width     'width in characters

```

```

format ss_view_info@
    sheet,          '0 based sheet number
    default_width,  'default column width in chars
    default_height, 'default height of row in points
    title_rows,     'array of title rows in this view
    title_cols,     'array of title columns in this view
    format arrayof ss_row_pair@ row_heights, 'array of row heights
    format arrayof ss_col_pair@ col_widths, 'array of column widths
    format arrayof ss_view_pair@ row_pairs,
    format arrayof ss_view_pair@ col_pairs

format ss_window_info@
    view_name, /* the view thats displayed in the window */
    format ss_cell_loc@ top_left, /* windows top left cell */
    format ss_cell_loc@ active_cell, /* windows cell cursor position */
    rows, /* array of rows that are displayed in the window */
    cols /* array of cols that are displayed in the window */

```



## table\_.am

```
,  
/* table_.am
```

This format is used for the exchange of tabular data between applications. It is placed on the clipboard as type AxXA\_ELF\_DATA. The document type code is AX\_DOC\_TYPE\_ASTERX\_ELFARRAY Words, Data, SS, and Graphics can copy and paste this type of data.

```
*/
```

```
format table_data@  
    data,                'an array of data, if data is TABLE_DATATYPE_ELF and element is  
                        'an array, then it is a row.  
    format table_info@ info 'about the data (may be NULL, or missing)
```

```
format table_info@  
    format table_heading_info@ heading,    'may be NULL  
    format arrayof table_column_info@ column 'may be NULL
```

```
format table_heading_info@  
    display                'TRUE if headers should be displayed
```

```
format table_column_info@  
    name,                  'string for column header  
    width,                 'in pixels, may be NULL  
    type,                  'see Data Types, below.  
    format table_attributes@ attributes,    'for contents of cells, may be NULL  
    format table_attributes@ heading_attributes 'for column headers, may be NULL
```

```
format table_attributes@    'any element may be NULL  
    alignment,              'text alignment  
    face,                   'face name  
    size,                   'point size  
    bold,                   'true or false  
    italic,                 'true or false  
    underline,              '0, 1 (single), or 2 (double)  
    color                   'as color is specified to the db_ctrl_text_color@() macro.
```

```
define TABLE_ALIGN_LEFT 1  
define TABLE_ALIGN_CENTER 2  
define TABLE_ALIGN_RIGHT 3
```

```

/* data types */
define TABLE_DATATYPE_ELF_          0      'raw ELF data type: string, float, etc. This is the
define TABLE_DATATYPE_MONEY_        1      'root of all evil.
define TABLE_DATATYPE_DATETIME_     2      'absolute time
define TABLE_DATATYPE_INTERVAL_     3      'time interval
define TABLE_DATATYPE_AXDOC_        4      'array of strings that is an Applixware document
define TABLE_DATATYPE_NUMBER_       5      'may be stored as an ELF string or number
define TABLE_DATATYPE_TEXT_         6      'element is an array of strings. each string is a
                                           paragraph.

```

## windows\_.am

format window\_format@

id,	' id of window... starts at 100001
title,	' title bar
icon_id,	' icon number
task_id,	' task number of window's owner
menubar_id	' window's menubar id.

,  
,  
,

' Support for Obsolete WINDOWS\_LIST@

' The function list\_of\_windows@ returns an array of window\_format\_.

format window\_format\_

number,	' number of created window (0-20)
title,	' title of window
icon_id,	' icon number
task_id	' task number of window's owner

## wp\_.am

' Basics

format wp\_location@  
    bead,  
    offset

format wp\_range@  
    format wp\_location@ start,  
    format wp\_location@ last

' Generic bead

format WP\_BEAD@

' Common elements:

    class,                    ' int: Class (e.g. ED\_TEXT, ED\_PARAGRAPH...)  
    status,                   ' int: bits for in-table, etc.

' Text (or any symbol) bead:

    text,                     ' string: Raw 8-bit ASCII text  
    format wp\_text\_attrs@ text\_attrs, ' array: Effective attributes  
    format wp\_text\_attrs\_flags@ text\_attrs\_flags, ' array: local/inherit atts

' Field bead:

    fieldType,               ' int: Field type (e.g. ED\_AUTONUM\_FIELD)

' Paragraph and style bead:

    format wp\_para\_attrs@ para\_attrs, ' array: Effective paragraph attributes  
    format wp\_para\_attrs\_flags@ para\_attrs\_flags, ' array: local/inherit atts  
    parentStyleName,          ' string: Parent style name  
    parentStyleNum,           ' int: Parent style bead sequence number  
    frameFlag,                ' int: WP#FRAME#DEF#INHERIT, #NONE, #LOCAL  
    format wp\_frame@ frame, ' array: frame attributes  
    tabFlag,                  ' int: WP#ATTRS#INHERIT, #NONE, #LOCAL  
    tabs,                     ' array: each element is a format wp\_tab@ tab  
    myStyleName,              ' string: Style name (for style bead only)  
    styleGlossary,            ' glossary prefix for styles

```

    nextStyleName,          ' string: for style beads.
,
' Marker bead:
,
    markerName,            ' string: Marker name
    deletable,              ' int: Can marker be deleted?
    saveToFile,             ' int: Should marker be saved in .aw file?
,
' Table cell bead:
,
    width,                  ' int: cell width, in mils (1000 mils = 1 inch)
    leftCellMargin,        ' int: margin from left of cell
    rightCellMargin,       ' int: margin from right of cell
    topCellMargin,         ' int: margin from top of cell
    bottomCellMargin,      ' int: margin from bottom of cell
    verticalAlignment,     ' int: WP#VERT#ALIGN#TOP, CENTER, ...
    locked,                 ' int: TRUE -> cell contents locked (form mode)
    cellId,                 ' str: unique cell ID (form mode)
    dblClickMacro,         ' str: macro to call on dbl click (form mode)
    entryMacro,             ' str: macro to call when cell entered (form mode)
    exitMacro,              ' str: macro to call when cell exited (form mode)
    maxChars,               ' int: Max # chars (enforced by C
                           code)
    caseness,               ' int: Force this case upon contents
    underline,              ' int: TRUE -> underline entire cell
                           width
    promptText,             ' str: Display this text on status line
                           when in cell
    nextIfFull,             ' int: TRUE -> type in next cell when
                           this fills
    nextCellId,            ' str: Where Select Next Cell goes
                           (form mode)
    lastCellInRow,         ' int: TRUE -> this is last cell in row
,
' Border attributes & flags (para, style and cell_end beads)
,
    format wp_border_attrs@ border, ' array: Effective attrs
    format wp_border_attrs_flags@ border_flags, ' array: local/inherit attrs
,
' Table row bead:
,
    heading,                ' int: TRUE -> this is a table heading row
    alignment,              ' int: WP#ROW#ALIGN#LEFT, #CENTER, #RIGHT
    indent,                 ' int: indent from left margin, in mils (1000 mils = 1 inch)

```

```

topRowMargin,          ' int: in mils
bottomRowMargin,      ' int: in mils
heightType,           ' int: WP#ROW#HEIGHT#AUTO, #EXACT, #MIN, #MAX
height,               ' int: row height, in mils
,
' Section bead:
,
sectType,              ' int: WP#SECTION#CONTINUOUS, ...
nCols,                ' int: # of columns in section
gutterWidth,          ' int: space between snaking columns
pageWidth,            ' int: width of page, in mils (1000 mils = 1 inch)
pageHeight,           ' int: height of page, in mils
pageOrientation,      ' int: WP_PAGE_PORTRAIT or _LANDSCAPE
paperSize,            ' int: code for letter, A4, etc.
printSourceTray,     ' int: specific tray; overrides
                    paperSize
printDestTray,       ' int: code for specific tray
duplex,              ' int: WP#PRINT#SIMPLEX,
                    #DUPLEX#LONG, #SHORT
leftMargin,          ' int: left page margin, in mils (1000 mils = 1 inch)
rightMargin,         ' int: right page margin, in mils
topMargin,           ' int: top page margin, in mils
bottomMargin,        ' int: bottom page margin, in mils
bindingMargin,       ' int: addl margin on "binding" side (2-sided)
oddHeaderType,       ' int: WP_HDRFTR_NORMAL, etc.
evenHeaderType,      ' int: WP_HDRFTR_NORMAL, etc.
firstHeaderType,     ' int: WP_HDRFTR_NORMAL, etc.
lastHeaderType,      ' int: WP_HDRFTR_NORMAL, etc.
oddFooterType,       ' int: WP_HDRFTR_NORMAL, etc.
evenFooterType,      ' int: WP_HDRFTR_NORMAL, etc.
firstFooterType,     ' int: WP_HDRFTR_NORMAL, etc.
lastFooterType,      ' int: WP_HDRFTR_NORMAL, etc.
oddHeaderName,       ' string: name of hdrftr/glossary
evenHeaderName,      ' string: name of hdrftr/glossary
firstHeaderName,     ' string: name of hdrftr/glossary
lastHeaderName,      ' string: name of hdrftr/glossary
oddFooterName,       ' string: name of hdrftr/glossary
evenFooterName,      ' string: name of hdrftr/glossary
firstFooterName,     ' string: name of hdrftr/glossary
lastFooterName,      ' string: name of hdrftr/glossary
sectNumStyle,        ' int: section numbering style (arabic, ...)
controlSectNum,      ' int: section # control (same, restart, ...)
restartSectNumVal,   ' int: number to restart section numbering at
separator,           ' string: section/page number separator

```

```

    pageNumStyle,          ' int: page numbering style (arabic, ...)
    restartPageNum,       ' int: restart page numbering if TRUE
    restartPageNumVal,    ' int: number to restart page numbering at
,
' Series definition bead
,
    format wp_series@ series,
,
' Bitmap beads:
,
    bitmapName,          ' string: Name (for bitmaps only)
,
' Document Start bead:
,
    levelIndent,         ' int: Extra left/first indent per para level
    language,            ' int: Extra left/first indent per para level
    hyphMethod,          ' int: WP_HYPH_NONE,WP_HYPH_DICT,WP_HYPH_CALC
    printIndex,          ' int: TRUE -> print index with doc
    printTOC,            ' int: TRUE -> print TOC with doc
    allowWidowOrphan,    ' int: TRUE -> disable widow/orphan control
    facingPages,         ' int: TRUE -> hdr/fters are even and odd
    headerMargin,        ' int: top of page to top of header, in mils (1000 mils = 1 inch)
    footerMargin,        ' int: bottom of page to bottom of footer, in mils
,
' Clipboard beads:
,
    clipType,            ' int: Clipboard number (e.g. CLIP_PRIMARY)
,
' Header/Footer bead
,
    hdrftrName,          ' string: header/footer name
,
' tag (character style) bead
,
'''    tagName,           ' string: tag name
,
    theEnd
,
.....
' Text attributes
,
format wp_text_attrs@
    bold,                ' int: TRUE or FALSE
    italic,               ' int: TRUE or FALSE

```

strickethru,	' int: TRUE or FALSE
hidden,	' int: TRUE or FALSE
capitals,	' int: WP_ATTRS_CAPS_XXXX
underline,	' int: WP_ATTRS_UNDER_XXXX
position,	' int: WP_ATTRS_POS_XXXX
hyphenate,	' int: TRUE or FALSE
color,	' string: color name
face,	' string: Font face name
size,	' int: in points
tag	' string: tag name

.....

' Text attribute flags

format wp\_text\_attrs\_flags@

bold,	' int: TRUE->local, FALSE->inherited
italic,	' int: TRUE->local, FALSE->inherited
strickethru,	' int: TRUE->local, FALSE->inherited
hidden,	' int: TRUE->local, FALSE->inherited
capitals,	' int: TRUE->local, FALSE->inherited
underline,	' int: TRUE->local, FALSE->inherited
position,	' int: TRUE->local, FALSE->inherited
hyphenate,	
color,	' int: TRUE->local, FALSE->inherited
face,	' int: TRUE->local, FALSE->inherited
size,	' int: TRUE->local, FALSE->inherited
tag	' int: TRUE->local, FALSE->inherited

.....

' Text attributes with flags

format wp\_flagged\_text\_attrs@

format wp_text_attrs_flags@ setFlags,	'set if attribute value is used
format wp_text_attrs_flags@ inheritFlags,	'set if attribute value is inherited
format wp_text_attrs@ attrs	'attribute values where setFlags is set

.....

' Paragraph attributes

format wp\_para\_attrs@

pageBreak,	' int: TRUE (pagebreak before para) or FALSE
keepWith,	' int: TRUE (keep w/next para) or FALSE



block,	' int: TRUE (keep para on single page) or FALSE
justify,	' int: horiz alignment (WP_ATTRS_HAL_XXXX)
inTOC,	' int: TRUE (put para in Tbl of Cont) or FALSE
indentToLevel,	' int: TRUE (indent para to level) or FALSE
noSpell,	' int: TRUE (don't spellcheck para) or FALSE
firstIndent,	' int: left indent of 1st line in picas
leftIndent,	' int: left indent of other lines in picas
rightIndent,	' int: right indent from right edge in picas
preParaSpacing,	' mils before para (1000 mils = 1 inch)
postParaSpacing,	' mils after para
lineSpacing,	' mils after each line
level,	' int: para level number
hyphZone,	' int: percent whitespace
hyphMinFrag	' int: min chars before and/or after hyphen

.....

' Paragraph attribute flags

format wp\_para\_attrs\_flags@

pageBreak,	' int: TRUE->local, FALSE->inherited
keepWith,	' int: TRUE->local, FALSE->inherited
block,	' int: TRUE->local, FALSE->inherited
justify,	' int: TRUE->local, FALSE->inherited
inTOC,	' int: TRUE->local, FALSE->inherited
indentToLevel,	' int: TRUE->local, FALSE->inherited
noSpell,	' int: TRUE->local, FALSE->inherited
firstIndent,	' int: TRUE->local, FALSE->inherited
leftIndent,	' int: TRUE->local, FALSE->inherited
rightIndent,	' int: TRUE->local, FALSE->inherited
preParaSpacing,	' int: TRUE->local, FALSE->inherited
postParaSpacing,	' int: TRUE->local, FALSE->inherited
lineSpacing,	' int: TRUE->local, FALSE->inherited
level,	' int: TRUE->local, FALSE->inherited
hyphZone,	' int: TRUE->local, FALSE->inherited
hyphMinFrag	' int: TRUE->local, FALSE->inherited

' Paragraph attributes with flags

format wp\_flagged\_para\_attrs@

```

format wp_para_attrs_flags@ setFlags,
'set if attribute value is used or inherited
format wp_para_attrs_flags@ inheritFlags,
'set if attribute value is inherited
format wp_para_attrs@ attrs 'attribute values where set and not inherited

```

```

'
' Frame
'
format wp_frame@
    type,
    xposType,
    xposRelative,
    xpos,
    yposType,
    yposRelative,
    ypos,
    widthType,
    width,
    heightType,
    height,
    leftMargin,
    rightMargin,
    topMargin,
    bottomMargin

' Series definition bead
'
format wp_series@
    name,                ' name of series
    style,               ' Code number for 1,2,3... or a,b,c.. etc.
    multiLevel,         ' if true, show multiple levels
    showFrom,           ' array, but 1st element not used.
    seperator,          ' array, but 1st element not used.
    leaderText,         ' Global leader
    trailerText,        ' Global trailer
    leaders,            ' array of per-level leaders
    trailers             ' array of per-level trailers

' Tab
'
format wp_tab@
    type,                ' int: WP_TAB_XXXX
    deleted,             ' int: TRUE -> tab deleted, not added
    xpos,                ' int: indent of tab in picas
    leaderStr,           ' string: leadering for tab (may incl spaces)
    decimalChar         ' string: decimal tab control char (one char)

.....

' Style, as returned by WP_GET_STYLE@(name)

```

' !!1 should include effective text & para attrs.

```
format wp_style@
    name,                ' Latest name for style
    orig_name,           ' Original name of style
    textFlag,           ' int: TRUE->locals, FALSE->all inherits
    format wp_text_attrs@ text_attrs, ' array: Effective attrs
    format wp_text_attrs_flags@ text_attrs_flags, ' array: local/inherit attrs
    paraFlag,           ' int: TRUE->locals, FALSE->all inherits
    format wp_para_attrs@ para_attrs, ' array: Effective paragraph attributes
    format wp_para_attrs_flags@ para_attrs_flags, ' array: local/inherit attrs
    frameFlag,          ' int: TRUE->local, FALSE->inherit
    format wp_frame@ frame, ' array: frame attributes if local
    tabFlag,            ' int: TRUE->local, FALSE->inherit
    format wp_tab@ tabs, ' array: add and delete list for tabs
    format wp_tab@ inheritTabs, ' array: inherited tabs (obs?)
    borderFlag,         ' int: TRUE->local, FALSE->inherit
    format wp_border_attrs@ border, ' array: Effective border attributes
    format wp_border_attrs_flags@ border_flags, ' arr: local/inherit attrs (obs?)
    parent,             ' name of parent style
    glossary,           ' prefix glossary
    nextStyle,          ' next style name
    changed              ' TRUE -> values changed
```

.....  
' View state, as returned by WP\_GET\_VIEW\_STATE@

```
format wp_view_state@
    pilcros,             ' view pilcros
    ruler,              ' view ruler
    breaks,             ' view page/column/section/line breaks
    fieldMethods,       ' view field methods (rather than field codes)
    allBounds,          ' view all boundaries
    cellBounds,         ' view cell boundaries
    frameBounds,        ' view frame boundaries
    hdrFtrBounds,       ' view hdr/ftr boundaries
    pageBounds,         ' view page boundaries
    zoomFactor,         ' percentage zoom (100 -> 100%, 200 -> 2X)
    wysiwyg,           ' 0-line positioning, 1-char positioning
    graphics,           ' if false, use placeholders for graphics
    htmlTags,           ' view unknown HTML tags
```

.....  
' Header/Footer info

```

,
format wp_hdrftr@
    oddHeaderType,
    evenHeaderType,
    firstHeaderType,
    lastHeaderType,
    oddFooterType,
    evenFooterType,
    firstFooterType,
    lastFooterType,
    oddHeaderName,
    evenHeaderName,
    firstHeaderName,
    lastHeaderName,
    oddFooterName,
    evenFooterName,
    firstFooterName,
    lastFooterName

```

.....

```

' Page Setup
,

```

```

format wp_page_setup@
    pageOrientation,      ' portrait, landscape
    pageWidth,            ' in mils (1000 mils = 1 inch)
    pageHeight,          ' in mils
    leftMargin,          ' in mils
    rightMargin,         ' in mils
    topMargin,           ' in mils
    bottomMargin,        ' in mils
    bindingMargin,       ' in mils
    paperSize,           ' int: code for letter, A4, etc.
    printSourceTray,     ' int: specific tray; overrides
                        paperSize
    printDestTray,      ' int: code for specific tray
    duplex,              ' int: WP#PRINT#SIMPLEX,
                        #DUPLEX#LONG,
                        #DUPLEX#SHORT

```

.....

```

' Border attributes
,

```

```

format wp_line_attrs@
    thickness,           ' line thickness in mils, 0 if no line

```

doubleLine, ' if true, two lines of same thickness  
color ' color name (1000 mils = 1 inch)

format wp\_shading\_attrs@  
shadingStyle,  
fillName, ' user defined fill pattern (Aster\*x image object name)  
fgColor, ' foreground color name  
bgColor ' background color name

format wp\_border\_attrs@  
format wp\_line\_attrs@ left, ' left border  
format wp\_line\_attrs@ right, ' right border  
format wp\_line\_attrs@ top, ' top border  
format wp\_line\_attrs@ bottom, ' bottom border  
format wp\_line\_attrs@ horizontal, ' horz separator (cells, between paras)  
format wp\_line\_attrs@ vertical, ' vertical separator (cells)  
format wp\_shading\_attrs@ shading, ' background shading  
horizontalMargin, ' in mils (paras) (1000 mils = 1 inch)  
verticalMargin, ' in mils (paras)  
dropShadow ' drop shadow style

format wp\_border\_attrs\_flags@  
left, ' int: TRUE->local, FALSE->inherited  
right, ' int: TRUE->local, FALSE->inherited  
top, ' int: TRUE->local, FALSE->inherited  
bottom, ' int: TRUE->local, FALSE->inherited  
horizontal, ' int: TRUE->local, FALSE->inherited  
vertical, ' int: TRUE->local, FALSE->inherited  
shading, ' int: TRUE->local, FALSE->inherited  
horizontalMargin, ' int: TRUE->local, FALSE->inherited  
verticalMargin, ' int: TRUE->local, FALSE->inherited  
dropShadow ' int: TRUE->local, FALSE->inherited

.....  
' Color  
,

format wp\_color@  
name,  
cyan,  
magenta,  
yellow,  
black

.....

' Graphics

,  
format wp\_graphic\_attrs@  
clipMode,  
proportionalScaling,  
xScale,  
yScale,  
useSrcXOffset,  
useSrcYOffset,  
useSrcWidth,  
useSrcHeight,  
xOffset,  
yOffset,  
srcWidth,  
srcHeight

.....  
' Link Info

,  
format wp\_link\_info@  
name, ' string: filename  
docType, ' int: doc type returned by WP\_RECOGNIZE\_FILE@  
appType, ' int: app type returned by WP\_RECOGNIZE\_FILE@  
filterMacro, ' string: import filter macro  
launchMacro, ' string: macro to launch application  
viewname ' string: viewname (for spreadsheet)

.....  
' Object Info

,  
format wp\_object\_info@  
name, ' string: name  
docType, ' int: doc type returned by WP\_RECOGNIZE\_FILE@  
appType, ' int: app type returned by WP\_RECOGNIZE\_FILE@  
filterMacro, ' string: import filter macro  
launchMacro, ' string: macro to launch application  
allowUnreferenced ' int: TRUE->save even if not referenced

.....  
' Row Attributes (same as row\_start bead)

,  
format wp\_row\_attrs@  
alignment, ' int: WP#ROW#ALIGN#LEFT, #CENTER, #RIGHT  
indent, ' int: indent from left margin, in mils

topRowMargin,	' int: in mils (1000 mils = 1 inch)
bottomRowMargin,	' int: in mils
heightType,	' int: WP#ROW#HEIGHT#AUTO, #EXACT, #MIN, #MAX
height,	' int: row height, in mils
heading	' int: TRUE -> this is a table heading row

.....

' Cell Attributes (same as cell\_end bead)

' Also used for Entry Fields

format wp_cell_attrs@	
width,	' int: cell width, in mils (min width of Entry fld) (1000 mils = 1 inch)
leftCellMargin,	' int: margin from left of cell (ignore for E fld)
rightCellMargin,	' int: margin from right of cell (ignore for E fld)
topCellMargin,	' int: margin from top of cell (ignore for E fld)
bottomCellMargin,	' int: margin from bottom of cell (ignore for E fld)
verticalAlignment,	' int: WP#VERT#ALIGN#TOP, CENTER, ... (not for E f)
locked,	' int: TRUE -> cell contents locked (in form mode)
cellId,	' str: unique cell ID (form mode)
dblClickMacro,	' str: macro to call on dbl click (form mode)
entryMacro,	' str: macro to call when cell entered (form mode)
exitMacro,	' str: macro to call when cell exited (form mode)
maxChars,	' int: Max # chars (enforced by C code)
caseness,	' int: Force this case upon contents
underline,	' int: TRUE -> underline entire cell width
promptText,	' str: Display this text on status line when in cell
nextIfFull,	' int: TRUE -> type in next cell when this fills
nextCellId,	' str: Where Select Next Cell goes (form mode)

lastCellInRow 'int: TRUE-> this is last cell in row  
(cell only)

.....  
' Equation editor: matrix info  
,

format eqn\_matrix\_info@

rows, 'int: number of rows  
cols, 'int: number of columns  
rowAlign, 'int: row align type  
colAlign, 'int: column align type  
equalRowHts, 'int: TRUE if row heights are set to equal  
equalColWds 'int: TRUE if column widths are set to equal

.....  
' WP\_PRINT\_DEVICE\_SPECIFIC@ parameter block  
,

format wp\_print\_info@

printername, ' printer name or "" if to file  
color, ' print in color?  
copies, ' number of copies  
banner, ' print banner page too?  
allPages, ' print all pages?  
range,  
merge, ' merge print?  
file, ' merge file  
class, ' printer class (eg PostScript)  
type, ' printer type (eg HP4SI6\_1.PPD)  
page1, ' start page num  
pageN, ' last page num  
draft, ' OBSOLETE  
contins, ' OBSOLETE  
changed, ' OBSOLETE  
pageExt1, ' OBSOLETE  
pageExtN, ' OBSOLETE  
background ' print in background?

.....  
' Status  
,

format wp\_status@

pageNum, /\* page number at cursor \*/  
pageCount, /\* total number of pages \*/  
colCount, /\* num columns selected (0 for non-table selection) \*/



```

verticalPosition,      /* position on page (from top) of cursor */
pageHeight,          /* height of page in mils (1000 mils = 1 inch) */
inFootNote,         /* TRUE iff cursor is in a footnote */
inHdrFtr,           /* TRUE iff cursor is in a header or footer */
inFrame,            /* TRUE iff cursor is in a frame */
inTable,            /* TRUE iff cursor is in a table */
inHeading,          /* TRUE if cursor is in a table heading */
inField,            /* TRUE iff cursor is in a field */
fieldMethod,        /* level 1 field method string if cursor in field */
overtimeMode,       /* TRUE iff typing mode is overtime. */
macroEditing,       /* TRUE iff this is the macro editor */
equationEditing,    /* TRUE iff this is the equation editor */
helpMode,           /* TRUE iff we are in help mode */
formMode,           /* TRUE iff we are in form mode */
paraNum,            /* Paragraph number (line number in macro editor) */
paraCount,          /* num paras in current flow (line count in ME) */
readOnly,           /* TRUE iff WP in read-only mode */
viewOnly,           /* TRUE iff WP in view-only mode */
zoomFactor,         /* zoom percentage */
modified,           /* TRUE if document modified */
htmlEditing,        /* HTML_MODE_NONE, _EDIT,
VIEW */
windowless          /* TRUE if opened in background (by
ELF script) */

```

.....

```

' CodePg
' To be used to determine the codepage to use for file conversion

```

```

format codepage@
    force_use,
    other_choices

```

.....

```

/* Generic defines for ELF */

```

```

define AX#FORBIDDEN#SYMBOL "$"
define AX#RESERVED#SYMBOL "@"

```

```

/* Common characters */

```

```

define BLANK$ " "
define SQUOTE$ ""

```

```
define SBACKQUOTE$ ""
define DQUOTE$ "\"
define BANG$ "!"
```

```
/** Document variable names **/
```

```
define WP#EDIT#HISTORY#VAR      "EditHistory$"
define WP#LANGUAGE#VAR          "Language@"
define WP#USER#NAME#VAR         "UserName$"
define WP#FILE#CREATOR#VAR      "Creator$"
define WP#FILE#CREATED#VAR      "Created$"
define WP#CREATION#DATE#VAR     "CreationDate$"
define WP#CREATION#USER#VAR     "CreationUser$"
define WP#FILE#UPDATED#VAR      "Updated$"
define WP#UPDATE#DATE#VAR       "UpdateDate$"
define WP#UPDATE#USER#VAR       "UpdateUser$"
define WP#READ#ONLY#VAR         "ReadOnly@"
define WP#TERSE#FILE#VAR        "TerseFile@"
define WP#BUILD#STAMP#VAR       "BuildStamp$"
define WP#DOC#NAME#VAR          "DocName$"
define WP#PATH#NAME#VAR         "PathName$"
define WP#PATH#NAME#REAL#VAR    "PathNameReal$"
define WP#BACKGROUND#SAVE#VAR   "BackgroundSave$"
define ME#SAVE#COMPILED#VAR     "SaveCompiled@"
define WP#LEVEL#INDENT#VAR      "LevelIndent@"
define WP#WIDOW#ORPHAN#VAR      "AllowWidowOrphan@"
define WP#FACING#PAGES#VAR      "FacingPages@"
define WP#HEADER#MARGIN#VAR     "HeaderMargin@"
define WP#FOOTER#MARGIN#VAR     "FooterMargin@"
define WP#IGNORE#LAST#PARA#VAR  "IgnoreLastPara@"
define WP#IGNORE#LAST#SECT#VAR  "IgnoreLastSect@"
define WP#CHANGE#BAR#POS#VAR    "ChangeBarPos@"
define WP#HOOK#MACRO#NAME#VAR   "HookMacroName@"
define WP#HOOKS#VAR             "HookArray$"
define WP#DOC#WIN#ATTR#TYPE#VAR "DocWindowAttrType@"
define WP#DOC#WIN#SIZE#VAR      "DocWindowSize$"
define WP#DOC#IS#FORM#VAR       "DocIsForm@"
define WP#MACRO#SRC#PREFIX#VAR  "ElfSrc$"
define WP#MACRO#OBJ#PREFIX#VAR  "ElfObj$"
define WP#EMULATE#21#VAR        "Emulate21@"
define WP#DOC#ZOOM#VAR          "DocZoom@"
```

```
/** Session variable names **/
```

```

define WP#USER#DICT#VAR      "DefaultDict@"
define WP#DICTS#VAR          "CustomDicts@"
define WP#SKIP#DICT#VAR     "SkipDict@"
define WP#DOC#DICT#VAR      "DocDict@"
define WP#NEW#DICTS#VAR     "NewDicts@"
define WP#PAGE#COUNT#VAR   "PageCount$"
define WP#VIEW#ONLY#VAR     "ViewOnly$"
define ME#CURRENT#COMPILE#VAR "CurrentCompile$"
define ME#COMPILED#OBJECT#VAR "CompiledObject$"
define ME#SAVE#ASCII#VAR    "SaveASCII@"
define WP#IS#REV2#DOC#VAR   "IsRev2Doc@"

```

/\*\* Document-specific Window Creation Options \*/

```

define WP#DOC#WIN#ATTR#DEFAULT 0
define WP#DOC#WIN#ATTR#LAST 1
define WP#DOC#WIN#ATTR#FIXED 2

```

/\*\* Style names \*/

/\*

Note there are a pair of defines for each style:

- The default name of the style (e.g. 'Cell')
- The name of an associated document variable (e.g. 'CellStyle@')

When the code needs to find a default style, it looks up the name in the appropriate document var. These will be preloaded with the default names.

\*/

```

define WP#CELL#STYLE          "Style name", "Cell"
define WP#CELL#STYLE#VAR     "CellStyle@"
define WP#HDR#FTR#STYLE      "Style name", "HdrFtr"
define WP#HDR#FTR#STYLE#VAR  "HdrFtrStyle@"
define WP#FOOTNOTE#STYLE     "Style name", "Footnote"
define WP#FOOTNOTE#STYLE#VAR "FootnoteStyle@"
define WP#FIELD#ERROR#STYLE  "Style name", "FieldError"
define WP#FIELD#ERROR#STYLE#VAR "FieldErrorStyle@"
define WP#FRAME#STYLE        "Style name", "Frame"
define WP#FRAME#STYLE_VAR    "FrameStyle@"
define WP#TOC#STYLE          "Style name", "TOC"
define WP#TOC#STYLE#VAR     "TOCStyle@"
define WP#TOC#STYLE#PREFIX   "Style name prefix", "TOC-

```

/\*\* Tags \*/

```

define WP#CELL#MACRO#TAG "$$PrevSelectedCell$$"
define WP#MAIN#FLOW#CURSOR#TAG "$$MainFlowCursor$$"

/*** Glossaries ***/

define WP#MERGE#GLOSSARY "Merge$"
define WP#CELL#RADIO#ON#GLOSSARY "CellRadioOn@"
define WP#CELL#RADIO#OFF#GLOSSARY "CellRadioOff@"
define WP#CELL#TOGGLE#ON#GLOSSARY "CellToggleOn@"
define WP#CELL#TOGGLE#OFF#GLOSSARY "CellToggleOff@"
define WP#FOOTNOTE#BAR#GLOSSARY "FootnoteBar@"
define WP#FOOTNOTE#CONT#BAR#GLOSSARY "FootnoteContBar@"
define WP#ENDNOTE#BAR#GLOSSARY "EndnoteBar@"
define WP#TABLE#CONT#GLOSSARY "TableContinuation@"

/*** Constants ***/

define FORCE#ON 1
define OPTIONAL#ON 2
define WP#TEMPLATE#FILE "empty.aw" /* Dflt WP style */
define WP#ASCII#TEMPLATE#FILE "ascii.aw" /* Dflt WP ASCII style*/
define ME#TEMPLATE#FILE "empty.am" /* Dflt ME style */
define ME#ASCII#TEMPLATE#FILE "ascii.am" /* Dflt ME ASCII style*/
define HTML#TEMPLATE#FILE XLT("html.aw")/* Dflt HTML style */
define WP#MARKER#PADDED#CELL NXLT("PaddedCell")
/* Extra Copy cell */
define WP#MARKER#ENTRY#START NXLT("$$EntryStart$$")
/* Before E fld */
define WP#MARKER#ENTRY#END NXLT("$$EntryEnd$$")
/* After E fld */

/*** WP attributes ***/

/* 'Generic' attribute flags */

define WP#ATTRS#NONE -2
define WP#ATTRS#LOCALS -1
define WP#ATTRS#INHERIT 0
define WP#ATTRS#UNKNOWN -999

/* General values */

define WP#NONE#STRING "None"

```

```
define WP#OFF#STRING "Off"
define WP#ON#STRING "On"
define WP#LOCAL#STRING "Local"
define WP#NO#STRING "No"
define WP#YES#STRING "Yes"
```

```
/** Character attributes */
```

```
/* Font names */
```

```
define WP#FONT#TIMES_ "Times"
define WP#FONT#TIMES#STRING "Times Roman"
define WP#FONT#BOOKMAN_ "Bookman"
define WP#FONT#BOOKMAN#STRING "ITC Bookman"
define WP#FONT#SCHOOL_ "New Century Schoolbook"
define WP#FONT#SCHOOL#STRING "New Century Schoolbook"
define WP#FONT#CHANCERY_ "Zapf Chancery"
define WP#FONT#CHANCERY#STRING "ITC Zapf Chancery"
define WP#FONT#PALATINO_ "Palatino"
define WP#FONT#PALATINO#STRING "Palatino"
define WP#FONT#COURIER_ "Courier"
define WP#FONT#COURIER#STRING "Courier"
define WP#FONT#HELVETICA_ "Helvetica"
define WP#FONT#HELVETICA#STRING "Helvetica"
define WP#FONT#HELVNARROW_ "Helvetica Narrow"
define WP#FONT#HELVNARROW#STRING "Helvetica Narrow"
define WP#FONT#AVANT_ "Avant Garde"
define WP#FONT#AVANT#STRING "ITC Avant Garde Gothic"
define WP#FONT#SYMBOL_ "Symbol"
define WP#FONT#SYMBOL#STRING "Symbol"
define WP#FONT#DINGBATS_ "Zapf Dingbats"
define WP#FONT#DINGBATS#STRING "Zapf Dingbats"
define WP#FONT#MINCHOU_ "Minchou"
define WP#FONT#MINCHOU#STRING "Minchou"
define WP#FONT#GOTHIC "Gothic"
define WP#FONT#GOTHIC#STRING "Gothic"
```

```
/* "Raw text face array" contents:
```

```
* Note we don't use zero, as it is convenient in the C source to treat
* this array as a string */
```

```
define WP#FONT#TYPE#LATIN      1
define WP#FONT#TYPE#SYMBOL     2
define WP#FONT#TYPE#DINGBATS   3
```

```
/* Pointsize */
```

```
define WP#SIZE#6#STRING "6 point"  
define WP#SIZE#8#STRING "8 point"  
define WP#SIZE#10#STRING "10 point"  
define WP#SIZE#12#STRING "12 point"  
define WP#SIZE#14#STRING "14 point"  
define WP#SIZE#18#STRING "18 point"  
define WP#SIZE#24#STRING "24 point"  
define WP#SIZE#36#STRING "36 point"  
define WP#SIZE#OTHER#STRING "Other"
```

```
/* Position */
```

```
define WP#POS#NORMAL#POINTS_ 0  
define WP#POS#SUB#POINTS_ -3  
define WP#POS#SUPER#POINTS_ 3  
define WP#POS#NORMAL#STRING "Normal"  
define WP#POS#SUB#STRING "Subscript"  
define WP#POS#SUPER#STRING "Superscript"
```

```
/* Underline */
```

```
define WP#UNDER#NONE_ 0  
define WP#UNDER#SINGLE_ 1  
define WP#UNDER#SINGLE#STRING "Single"  
define WP#UNDER#DOUBLE_ 2 ' Double underlining  
define WP#UNDER#DOUBLE#STRING "Double"  
define WP#UNDER#WORDS_ 3 ' By words  
define WP#UNDER#WORDS#STRING "Single Words"  
define WP#UNDER#DOUBLE#WORDS_ 4  
define WP#UNDER#DOUBLE#WORDS#STRING "Double Words"  
define WP#UNDER#NOTABS 5  
define WP#UNDER#NOTABS#STRING "Single Not Tabs"  
define WP#UNDER#DOUBLE#NOTABS 6  
define WP#UNDER#DOUBLE#NOTABS#STRING "Double Not Tabs"
```

```
/* Caps */
```

```
define WP#CAPS#NORMAL_ 0  
define WP#CAPS#UPPER_ 1  
define WP#CAPS#LOWER_ 2
```

```
/* Hyphenation Methods */
```

```
2.                                0 */
define WP#HYPHENATE#ALGORITHM 0
define WP#HYPHENATE#DICTIONARY 1 ' Really means Dict w/Rule-based backup
define WP#HYPHENATE#NONE_2
```

```
3.                                0 */
/* Note we preserve the order of the previous defines (see above)
   so that old scripts will still run properly */
```

```
define WP#HYPH#CALC#ONLY 0 /* Rule-based only */
define WP#HYPH#DICT#CALC 1 /* Dictionary with rule-based backup */
define WP#HYPH#NONE 2 /* Don't hyphenate */
define WP#HYPH#DICT#ONLY 3 /* Dictionary only */
define WP#HYPH#PROFILE 4 /* Use profile setting */
```

```
/* Proximity hyphenation defines - as copied from aspell.h for use in
   direct calls to generic (non-WP) hyphenation functions (e.g. in the
   TEXT_HYPHENATE@ macro) */
```

```
define HYPH_NONE 0 /* Don't hyphenate */
define HYPH_DICT 1 /* Dictionary only */
define HYPH_CALC 2 /* Rule-based only */
define HYPH_DICT_CALC 3 /* Dictionary with rule-based backup */
```

```
/** Paragraph attributes */
```

```
/* Justification */
```

```
define WP#JUSTIFY#LEFT_0 ' Left aligned
define WP#JUSTIFY#LEFT#STRING "Left"
define WP#JUSTIFY#RIGHT_1 ' Right aligned
define WP#JUSTIFY#RIGHT#STRING "Right"
define WP#JUSTIFY#CENTER_2 ' Center aligned
define WP#JUSTIFY#CENTER#STRING "Center"
define WP#JUSTIFY#FULL_3 ' Padded to both sides
define WP#JUSTIFY#FULL#STRING "Justified"
```

```
/* Tab types */
```

```
define WP#MAX#TABS 50
define WP#TAB#LEFT_0
define WP#TAB#RIGHT_1
define WP#TAB#CENTER_2
define WP#TAB#DECIMAL_3
```

```

define WP#TAB#INDENT_4

/* Pagebreak */

define WP#PBREAK#BEFORE#STRING "Before"

/* Keep with next */

define WP#KEEPWITH#NEXT#STRING "Next"

/* Indent to level */

define WP#INDENTTOLEV#NO#STRING "No affect"
define WP#INDENTTOLEV#YES#STRING "Has affect"

/** Frames **/

/* Frame identity */

define WP#FRAME#DEF#INHERIT      0
define WP#FRAME#DEF#NONE        1
define WP#FRAME#DEF#LOCAL        2

/* Frame types */

define WP#FRAME#FLOW#AROUND      0
define WP#FRAME#JUMP#OVER        1
define WP#FRAME#BACKGROUND      2

/* Frame horizontal position */

define WP#FRAME#XREL#PAGE        0
define WP#FRAME#XREL#MARGIN      1
define WP#FRAME#XREL#COLUMN      2

define WP#FRAME#XPOS#LEFT        0
define WP#FRAME#XPOS#CENTER      1
define WP#FRAME#XPOS#RIGHT       2
define WP#FRAME#XPOS#OUTSIDE     3
define WP#FRAME#XPOS#INSIDE      4

/* Frame vertical position */

define WP#FRAME#YREL#PAGE        0

```



```

define WP#FRAME#YREL#MARGIN    1
define WP#FRAME#YREL#PARA      2

define WP#FRAME#YPOS#TOP       0
define WP#FRAME#YPOS#CENTER    1
define WP#FRAME#YPOS#BOTTOM    2

/* Frame width */

define WP#FRAME#WIDTH#AUTO      0
define WP#FRAME#WIDTH#EXACT     1

/* Frame height */

define WP#FRAME#HEIGHT#AUTO     0
define WP#FRAME#HEIGHT#EXACT    1
define WP#FRAME#HEIGHT#MIN      2
define WP#FRAME#HEIGHT#MAX      3

/** Section */

/* Section types */

define WP#SECTION#CONTINUOUS    0
define WP#SECTION#NEXT#COLUMN  1
define WP#SECTION#NEXT#PAGE     2
define WP#SECTION#ODD#PAGE      3
define WP#SECTION#EVEN#PAGE     4

/* Header/Footer types */

define WP#ODD#HDRFTR#INHERIT    0
define WP#ODD#HDRFTR#NORMAL     1
define WP#ODD#HDRFTR#NONE       2
define WP#ODD#HDRFTR#USE#GLOSSARY 3

define WP#EVEN#HDRFTR#USE#ODD0
define WP#EVEN#HDRFTR#INHERIT   1
define WP#EVEN#HDRFTR#NORMAL    2
define WP#EVEN#HDRFTR#NONE      3
define WP#EVEN#HDRFTR#USE#GLOSSARY 4

define WP#FIRST#HDRFTR#NOT#SPECIAL 0
define WP#FIRST#HDRFTR#INHERIT     1

```

```
define WP#FIRST#HDRFTR#NORMAL 2
define WP#FIRST#HDRFTR#NONE 3
define WP#FIRST#HDRFTR#USE#GLOSSARY 4
```

```
define WP#LAST#HDRFTR#NOT#SPECIAL 0
define WP#LAST#HDRFTR#INHERIT 1
define WP#LAST#HDRFTR#NORMAL 2
define WP#LAST#HDRFTR#NONE 3
define WP#LAST#HDRFTR#USE#GLOSSARY 4
```

*/\* Page orientations \*/*

```
define WP#PAGE#PORTRAIT_ 0
define WP#PAGE#LANDSCAPE_ 1
```

*/\* Printing options \*/*

```
define WP#PRINT#SIMPLEX 0
define WP#PRINT#DUPLEX#LONG 1
define WP#PRINT#DUPLEX#SHORT 2
```

*/\*\* Borders & Shading \*/*

*/\* Shading \*/*

```
define WP#SHADING#FILL#A 0
define WP#SHADING#FILL#M 1
define WP#SHADING#FILL#B 2
define WP#SHADING#FILL#C 3
define WP#SHADING#FILL#D 4
define WP#SHADING#FILL#N 5
define WP#SHADING#FILL#E 6
define WP#SHADING#FILL#F 7
define WP#SHADING#FILL#G 8
define WP#SHADING#FILL#H 9
define WP#SHADING#FILL#I 10
define WP#SHADING#FILL#J 11
define WP#SHADING#FILL#K 12
define WP#SHADING#FILL#L 13
define WP#SHADING#FILL#O 14
define WP#SHADING#FILL#P 15
define WP#SHADING#FILL#Q 16
define WP#SHADING#FILL#R 17
define WP#SHADING#NONE 18
```

```

define WP#SHADING#LINEAR#GRADIENT 19
define WP#SHADING#RADIAL#GRADIENT 20
define WP#SHADING#RECT#GRADIENT 21
define WP#SHADING#USER#DEFINED 22

/* Shadow */

define WP#SHADOW#NONE 0
define WP#SHADOW#BOTTOM#RIGHT 1
define WP#SHADOW#TOP#LEFT 2
define WP#SHADOW#BOTTOM#LEFT 3
define WP#SHADOW#TOP#RIGHT 4

/* Border type based on cursor/selection */

define WP#BORDER#PARAGRAPH 0
define WP#BORDER#SINGLE#ROW#SINGLE#COL 1
define WP#BORDER#SINGLE#ROW#MULTI#COL 2
define WP#BORDER#MULTI#ROW#SINGLE#COL 3
define WP#BORDER#MULTI#ROW#MULTI#COL 4

/* Range types based on section */

define WP#RANGE#CURSOR 0
define WP#RANGE#SINGLE#SECTION 1
define WP#RANGE#MULTI#SECTION 2

/** Numbering */

/* Generic numbering styles - for series, page and section numbering*/

define WP#NUMBERING#NONE -1
define WP#NUMBERING#ARABIC 0 /* 1, 2, 3... */
define WP#NUMBERING#LETTER#UPPER 1 /* A, B, C... */
define WP#NUMBERING#LETTER#LOWER 2 /* a, b, c... */
define WP#NUMBERING#ROMAN#UPPER 3 /* I, II, III... */
define WP#NUMBERING#ROMAN#LOWER 4 /* i, ii, iii... */

/* Page numbering styles */
/* !!0 To be phased out in favor of the above */

define WP#PAGE#NUM#ARABIC 0
define WP#PAGE#NUM#ALPHABETIC#UPPER 1
define WP#PAGE#NUM#ALPHABETIC#LOWER 2

```

```
define WP#PAGE#NUM#ROMAN#UPPER      3
define WP#PAGE#NUM#ROMAN#LOWER     4
```

```
/* Section numbering controls */
```

```
define WP#SECT#NUM#SAME      0
define WP#SECT#NUM#INCREM    1
define WP#SECT#NUM#RESTART   2
```

```
/* Special for standard and user-defined numbered series formats */
```

```
define WP#NUM#SERIES#1      0
define WP#NUM#SERIES#CAP#A  1
define WP#NUM#SERIES#SMALL#A 2
define WP#NUM#SERIES#CAP#I  3
define WP#NUM#SERIES#SMALL#I 4
define WP#NUM#SERIES#PREFIX  "UserSeries"
define WP#NUM#SERIES#BASE 1000
```

```
/** Change bars */
```

```
define WP#CB#NOCHANGE      0
define WP#CB#ADDED         1
define WP#CB#DELETED       2
define WP#CB#CHANGED       3
```

```
define WP#CB#POS#LEFT      0
define WP#CB#POS#RIGHT     1
define WP#CB#POS#OUTER     2
```

```
define WP#CB#NONE          0
define WP#CB#STANDARD      1
define WP#CB#NO#ATTRS     2
```

```
/** Fields */
```

```
/* Field defines */
```

```
define WP#DATE#FIELD 1
define WP#DATE#FIELD#STRING "date"
define WP#DATE#FIELD#NAME "Date"
define WP#TIME#FIELD 2
define WP#TIME#FIELD#STRING "time"
define WP#TIME#FIELD#NAME "Time"
```

```

define WP#NUMBER#FIELD 3
define WP#NUMBER#FIELD#STRING "series"
define WP#NUMBER#FIELD#NAME "Numbered Series"
define WP#FOOTNOTE#REF#FIELD 4
define WP#FOOTNOTE#FIELD#STRING "footnote"
define WP#FOOTNOTE#FIELD#NAME "Footnote"
define WP#FOOTNOTE#BODY#FIELD 5
define WP#FOOTNOTE#BODY#FIELD#STRING "footnote_body"
define WP#FOOTNOTE#BODY#FIELD#NAME "Footnote Body"
define WP#LINK#FILE#FIELD 6
define WP#LINK#FIELD#STRING "link"
define WP#LINK#FIELD#NAME "Link"
define WP#LOCAL#INSET#FIELD 7
define WP#LOCAL#INSET#FIELD#STRING "local_inset"
define WP#LOCAL#INSET#FIELD#NAME "Local Inset"
define WP#INCLUDE#FILE#FIELD 8
define WP#INCLUDE#FIELD#STRING "include"
define WP#INCLUDE#FIELD#NAME "Include"
define WP#GLOSSARY#FIELD 9
define WP#GLOSSARY#FIELD#STRING "glossary"
define WP#GLOSSARY#FIELD#NAME "Glossary"
define WP#XREF#FIELD 10
define WP#XREF#FIELD#STRING "xref"
define WP#XREF#FIELD#NAME "Cross-Reference"
define WP#XREF#SOURCE#FIELD 11
define WP#XREF#SOURCE#FIELD#STRING "xref_source"
define WP#XREF#SOURCE#FIELD#NAME "Cross-Reference Source"
define WP#INDEX#FIELD 12
define WP#INDEX#FIELD#STRING "index"
define WP#INDEX#FIELD#NAME "Index Entry"
define WP#MAKE#INDEX#FIELD 13
define WP#MAKE#INDEX#FIELD#STRING "make_index"
define WP#MAKE#INDEX#FIELD#NAME "Index"
define WP#MAKE#TOC#FIELD 14
define WP#MAKE#TOC#FIELD#STRING "make_TOC"
define WP#MAKE#TOC#FIELD#NAME "Table of Contents"
define WP#MERGE#FIELD 15
define WP#MERGE#FIELD#STRING "merge"
define WP#MERGE#FIELD#NAME "Merge"
define WP#MACRO#FIELD 16
define WP#MACRO#FIELD#STRING "macro"
define WP#MACRO#FIELD#NAME "Macro"
define WP#HYPER#TARGET#FIELD 17
define WP#HYPER#TARGET#FIELD#STRING "hyper_target"

```

```

define WP#HYPER#TARGET#FIELD#NAME "Hypertarget"
define WP#SOFT#HYPHEN#FIELD 18
define WP#SOFT#HYPHEN#FIELD#STRING "-"
define WP#SOFT#HYPHEN#FIELD#NAME "Soft Hyphen"
define WP#PAGE#NUMBER#FIELD 19
define WP#PAGE#NUMBER#FIELD#STRING "page_number"
define WP#PAGE#NUMBER#FIELD#NAME "Page Number"
define WP#PAGE#COUNT#FIELD 20
define WP#PAGE#COUNT#FIELD#STRING "page_count"
define WP#PAGE#COUNT#FIELD#NAME "Page Count"
define WP#IF#VAR#FIELD 21
define WP#IF#VAR#FIELD#STRING "if_var"
define WP#IF#VAR#FIELD#NAME "Conditional Variable"
define WP#IF#MACRO#FIELD 22
define WP#IF#MACRO#FIELD#STRING "if_macro"
define WP#IF#MACRO#FIELD#NAME "Conditional Macro"
define WP#ELF#STR#FIELD 23
define WP#ELF#STR#FIELD#STRING "macro_string"
define WP#ELF#STR#FIELD#NAME "ELF Macro String"
define WP#ELF#BEAD#FIELD 24
define WP#ELF#BEAD#FIELD#STRING NXLT("macro_beads")
define WP#ELF#BEAD#FIELD#NAME XLT("ELF Macro Beads")
define WP#VAR#STR#FIELD 25
define WP#VAR#STR#FIELD#STRING NXLT("var_string")
define WP#VAR#STR#FIELD#NAME XLT("Document Variable
                                String")

define WP#ENTRY#FIELD 26
define WP#ENTRY#FIELD#STRING NXLT("entry")
define WP#ENTRY#FIELD#NAME XLT("Entry")
define WP#HTML#TAG#FIELD 27
define WP#HTML#TAG#FIELD#STRING NXLT("html_tag")
define WP#HTML#TAG#FIELD#NAME NXLT("HTML Tag")
define WP#PRINTER#CODE#FIELD 28
define WP#PRINTER#CODE#FIELD#STRING NXLT("printer_code")
define WP#PRINTER#CODE#FIELD#NAME NXLT("Printer Code")

/* Field parameters */
/* Note:
    General pattern is WP_FIELD_PARM_<fieldtype>_<identifier>

    However, if a parameter is shared between multiple field types,
    use the pattern: WP_FIELD_PARM_<identifier>
*/
/* !!0 To do:

```

- Make Index and TOC share \_TITLE parm

\*/

```
define WP#FIELD#PARM#TEXT           NXLT("-text")
define WP#FIELD#PARM#DTEXT          NXLT("-dtext")
define WP#FIELD#PARM#STEXT          NXLT("-stext")
define WP#FIELD#PARM#TEXT#STYLE     NXLT("-textStyle")
define WP#FIELD#PARM#OUT#OF#DATE    NXLT
                                     ("-saveOutOfDate")
define WP#FIELD#PARM#READ#EVAL      NXLT("-readEval")
define WP#FIELD#PARM#PRINT#EVAL     NXLT("-printEval")
define WP#FIELD#PARM#SAVE#EVAL      NXLT("-saveEval")
define WP#FIELD#PARM#NO#EVAL        NXLT("-noEval")
define WP#FIELD#PARM#EMPTY#VALUE    NXLT("-emptyValue")
define WP#FIELD#PARM#GLOSSARY#VALUE NXLT("-glossary")
define WP#FIELD#PARM#2CLICK         NXLT("-doubleClick")
define WP#FIELD#PARM#2CLICK#MACRO   NXLT
                                     ("-dblClickMacro")
define WP#FIELD#PARM#ENTER#MACRO    NXLT("-enterMacro")
define WP#FIELD#PARM#EXIT#MACRO     NXLT("-exitMacro")
define WP#FIELD#PARM#TYPING#MACRO   NXLT("-typingMacro")
define WP#FIELD#PARM#MACRO#TEXTBUTTON NXLT
                                     ("-textButton")
define WP#FIELD#PARM#MACRO#TB#WIDTH NXLT
                                     ("-buttonWidth")
define WP#FIELD#PARM#MACRO#ICONBUTTON NXLT("-iconButton")
define WP#FIELD#PARM#MACRO#CMD       NXLT("-pass")
define WP#FIELD#PARM#INSET#DOC#TYPE  NXLT("-docType")
define WP#FIELD#PARM#INSET#APP#TYPE  NXLT("-appType")
define WP#FIELD#PARM#INSET#TYPE      NXLT("-type")
                                     /* OLD (use -appType) */
define WP#FIELD#PARM#INSET#CVT       NXLT("-cvt")
define WP#FIELD#PARM#INSET#CVTCMD    NXLT("-cvtcmd")
define WP#FIELD#PARM#INSET#APP       NXLT("-app")
define WP#FIELD#PARM#INSET#VIEW      NXLT("-view")
define WP#FIELD#PARM#INSET#CLIPMODE  NXLT("-clipMode")
define WP#FIELD#PARM#INSET#XSCALE    NXLT("-xscale")
define WP#FIELD#PARM#INSET#YSCALE    NXLT("-yscale")
define WP#FIELD#PARM#INSET#XOFFSET   NXLT("-xoffset")
define WP#FIELD#PARM#INSET#YOFFSET   NXLT("-yoffset")
define WP#FIELD#PARM#INSET#SRCWIDTH  NXLT("-srcWidth")
define WP#FIELD#PARM#INSET#SRCHEIGHT NXLT("-srcHeight")
define WP#FIELD#PARM#INSET#PROPORTION NXLT
                                     ("-proportional")
```

```

define WP#FIELD#PARM#INSET#LASTSECT NXLT("-lastSection")
define WP#FIELD#PARM#INSET#SHRINK#TBL    NXLT
                                           ("shrinkToFit")
define WP#FIELD#PARM#INDEX#SPAN          NXLT("-span")
define WP#FIELD#PARM#INDEX#SEEALSO      NXLT("-see")
define WP#FIELD#PARM#INDEX#LETTERHEAD   NXLT
                                           ("letterHeader")
define WP#FIELD#PARM#INDEX#BLANKHEAD    NXLT
                                           ("blankHeader")

define WP#FIELD#PARM#INDEX#NOHEAD       NXLT("-noHeader")
define WP#FIELD#PARM#INDEX#TITLE        NXLT("-title")
define WP#FIELD#PARM#NEWSTYLES          NXLT("-newStyles")
define WP#FIELD#PARM#TOC#STYLES         NXLT("-styles")
define WP#FIELD#PARM#TOC#TITLE          NXLT("-contents")
define WP#FIELD#PARM#TOC#MAXLEVEL       NXLT("-maxLevel")
define WP#FIELD#PARM#TOC#NOTAB          NXLT("-noTab")
define WP#FIELD#PARM#TOC#PLAINTAB       NXLT("-plainTab")
define WP#FIELD#PARM#TOC#DOTTAB         NXLT("-dotTab")
define WP#FIELD#PARM#TOC#NONUMS        NXLT("-noPageNums")
define WP#FIELD#PARM#TOC#STRIP#TABS     NXLT("-stripTabs")
define WP#FIELD#PARM#SERIES#NOINCREM    NXLT
                                           ("noIncrement")
define WP#FIELD#PARM#SERIES#NODISPLAY   NXLT
                                           ("noDisplay")
define WP#FIELD#PARM#SERIES#SET         NXLT("-set")
define WP#FIELD#PARM#SERIES#LEVEL       NXLT("-level")
define WP#FIELD#PARM#FOOTNOTE#SERIES    NXLT("-series")
define WP#FIELD#PARM#FOOTNOTE#ENDDOC    NXLT
                                           ("endDoc")
define WP#FIELD#PARM#XREFSRC#LIVE       NXLT("-live")
define WP#FIELD#PARM#XREF#NEXT          NXLT("-next")
define WP#FIELD#PARM#XREF#PREV          NXLT("-prev")
define WP#FIELD#PARM#XREF#MAINFLOW      NXLT("-mainFlow")
define WP#FIELD#PARM#XREF#PAGE#TOP      NXLT("-pageTop")
define WP#FIELD#PARM#XREF#PAGE#BOTTOM   NXLT
                                           ("pageBottom")
define WP#FIELD#PARM#MERGE#OFFSET       NXLT("-rowOffset")
define WP#FIELD#PARM#MERGE#ADVANCE      NXLT("-rowAdvance")
define WP#FIELD#PARM#MERGE#LAST#PARA    NXLT("-usePara")
define WP#FIELD#PARM#NO#ICON            NXLT("-noIcon")
define WP#FIELD#PARM#ICON               NXLT("-icon")
define WP#FIELD#PARM#FORMAT             NXLT("-format")
define WP#FIELD#PARM#COMMENT            NXLT("-comment")
define WP#FIELD#PARM#HTML               NXLT("-html")

```



```

define WP#FIELD#PARM#HTML#TAG           NXLT("-htmlTag")
define WP#FIELD#PARM#HTML#PARM          NXLT("-htmlParm")
define WP#FIELD#PARM#HTML#ANCHOR        NXLT("-htmlAnchor")
define WP#FIELD#PARM#HTML#IMG           NXLT("-htmlImg")
define WP#FIELD#PARM#HTML#ALIGN         NXLT("-htmlAlign")
define WP#FIELD#PARM#HTML#ALT           NXLT("-htmlAlt")
define WP#FIELD#PARM#HTML#ISMAP         NXLT("-htmlIsmap")
define WP#FIELD#PARM#ENTRY#CHARS        NXLT("-maxChars")
define WP#FIELD#PARM#ENTRY#START#VAL    NXLT("-startValue")
define WP#FIELD#PARM#ENTRY#END#VAL      NXLT("-endValue")
define WP#FIELD#PARM#ENTRY#NEXT#ID      NXLT("-nextId")
define WP#FIELD#PARM#ENTRY#LOCKED       NXLT("-locked")
define WP#FIELD#PARM#ENTRY#NEXT#FULL    NXLT("-nextIfFull")
define WP#FIELD#PARM#ENTRY#CASE         NXLT("-case")
define WP#FIELD#PARM#ENTRY#UNDERLINE    NXLT("-underline")
define WP#FIELD#PARM#ENTRY#PROMPT       NXLT("-promptText")
define WP#FIELD#PARM#ENTRY#WIDTH        NXLT("-minWidth")
define WP#FIELD#PARM#DOMAIN             NXLT("-domain")
define WP#FIELD#PARM#PRINT#ASCII        NXLT("-ascii")
define WP#FIELD#PARM#PRINT#PCL          NXLT("-pcl")
define WP#FIELD#PARM#PRINT#PS           NXLT("-postscript")
define WP#FIELD#PARM#PRINT#GDI          NXLT("-gdi")

```

/\*\* Objects \*\*/

/\* App types \*/

```

define WP#APP#TYPE#NONE                 0
define WP#APP#TYPE#WORDS                 1
define WP#APP#TYPE#GRAPHICS              2
define WP#APP#TYPE#SPREADSHEET          3
define WP#APP#TYPE#MACRO                 4
define WP#APP#TYPE#AUDIO                 5
define WP#APP#TYPE#EQUATION              6
define WP#APP#TYPE#QUERY                 7

```

/\* Graphics clip modes \*/

```

define WP#PICT#SCALE#TO#FIT              0
define WP#PICT#CLIP#TO#FIT              1
define WP#PICT#SCALE#IF#WOULD#CLIP      2

```

/\*\* Color \*\*/

```

define WP#MAX#COLOR#VALUE 255

/** Tables **/

/* Row alignment */

define WP#ROW#ALIGN#LEFT      0
define WP#ROW#ALIGN#CENTER    1
define WP#ROW#ALIGN#RIGHT     2

/* Row height */

define WP#ROW#HEIGHT#AUTO     0
define WP#ROW#HEIGHT#EXACT    1
define WP#ROW#HEIGHT#MIN      2
define WP#ROW#HEIGHT#MAX      3

/* Vertical alignment within cell */

define WP#VERT#ALIGN#TOP      0
define WP#VERT#ALIGN#CENTER   1
define WP#VERT#ALIGN#BOTTOM   2
define WP#VERT#ALIGN#JUSTIFIED 3

/** Footnotes **/

/* Special series for footnotes */

define WP#FOOTNOTE#SERIES#PAGE "Footnote$" /* old define */
define WP#FOOTNOTE#SERIES#DOC "Endnote$" /* old define */
define WP#FOOTNOTE#SERIES "Footnote$"
define WP#ENDNOTE#SERIES "Endnote$"

/* Footnote types */

define WP#FOOTNOTE#BOTTOM#PAGE 0
define WP#FOOTNOTE#END#DOC 1

/** Hypertext **/

/* Special for Help Hypertext */

define WP#HELP#PREFIX#VAR "HelpPrefix@"
define WP#HELP#GLOSSARY#VAR "HelpGlossary@"

```

```

define WP#HELP#SECTION#VAR      "HelpSection@"
define WP#HELP#STYLE#VAR  "HelpStyle@"

/* Search directions */

define WP#SEARCH#FORWARDS      0
define WP#SEARCH#BACKWARDS    1
define WP#SEARCH#BOTH          2

/** Spelling */

/* Useful constants */

define WP#MAX#NUM#DICTS      8

/* Maximum-sized word Proximity (speller, thesaurus) wants to deal with: */

define MAXWORD 32

/** HTML stuff */
define HTML#MODE#NONE        0
define HTML#MODE#EDIT        1
define HTML#MODE#VIEW        2

/** Debugging tools */

/* Flags determining what tests are carried out (on a continual basis).
   In C, bit flags. In ELF, array indices. */

define WP#DEBUG#CHECK#MEMORY 0
define WP#DEBUG#DOC#VALID 1

/** WP bead classes */

/*
   Document bead types.
   Note that all paired types must have the end after the start and
   have a value >= ED_FIRST_PAISED.
*/

define WP_NO_CLASS            0
define WP_TEXT_CLASS          1
define WP_PARAGRAPH_CLASS     2
define WP_STYLE_CLASS         3

```

```

define WP_BITMAP_CLASS          4
define WP_OBJECT_CLASS          5
define WP_COLUMN_BREAK_CLASS   6
define WP_PAGE_BREAK_CLASS     7
define WP_MARKER_CLASS         8
define WP_ERROR_CLASS          9
define WP_CELL_END_CLASS       10
define WP_ROW_START_CLASS      11
define WP_SECTION_CLASS        12
define WP_SERIES_CLASS         13
define WP_FIELD_SPLIT_CLASS    14
define WP_EQUATION_CLASS       15
define WP_VARIABLE_CLASS       16
define WP_COLOR_CLASS          17
define WP_GRAPHICS_CLASS       18
define WP_TAG_CLASS            19

define WP_FIELD_START_CLASS     20
define WP_FIELD_END_CLASS       21
define WP_STYLE_START_CLASS     22
define WP_STYLE_END_CLASS       23
define WP_GROUP_START_CLASS     24
define WP_GROUP_END_CLASS       25
define WP_FOOTNOTE_START_CLASS  26
define WP_FOOTNOTE_END_CLASS    27
define WP_HDRFTR_START_CLASS    28
define WP_HDRFTR_END_CLASS      29
define WP_GLOSSARY_START_CLASS  30
define WP_GLOSSARY_END_CLASS    31
define WP_FLOW_START_CLASS      32
define WP_FLOW_END_CLASS        33
define WP_VARIABLES_START_CLASS 34
define WP_VARIABLES_END_CLASS   35
define WP_DOCUMENT_START_CLASS  36
define WP_DOCUMENT_END_CLASS    37
define WP_MAX_CLASS_NUMBER      WP_DOCUMENT_END_CLASS

```

```

/*** Equation Editor ***

```

```

/* Equation editor template classes */

```

```

define WP#EQN_EMPTY           0      ' empty template
define WP#EQN_EMPTY_DELETABLE 0      ' deletable slot

```

```

define WP#EQN_EMPTY_NONDELETABLE 1 ' non deletable
                                slot
define WP#EQN_SYMBOL 1 ' symbol template
define WP#EQN_SYMBOL_CHAR 0 ' simple character from
                                variable font
define WP#EQN_SYMBOL_EQUAL 1 ' equals character, =
define WP#EQN_SYMBOL_RELATIONAL 2 ' relational
                                operators, >=, <=, ...
define WP#EQN_SYMBOL_EMBELLISH 3 ' embellishments like ',",`, ...
define WP#EQN_SYMBOL_SPACE 4 ' space adjustments btw templates
define WP#EQN_SYMBOL_OPERATOR 5 ' operators like +,-,*,x,...
define WP#EQN_SYMBOL_DIGIT 6 ' char is digit
define WP#EQN_SYMBOL_ARROW 7 ' different types of
                                arrows
define WP#EQN_SYMBOL_LOGICAL 8 ' logical symbols
define WP#EQN_SYMBOL_SET 9 ' set theory symbols
define WP#EQN_SYMBOL_LOGGREEK 10 ' lower case chars from
                                greek charset
define WP#EQN_SYMBOL_UPGREEK 11 ' upper case chars from
                                greek charset
define WP#EQN_SYMBOL_MISC 12 ' misc symbols
define WP#EQN_SYMBOL_FUNCTION 13 ' function names
define WP#EQN_SYMBOL_MAXSUBS 14 ' max sub types for
                                symbol template
define WP#EQN_FENCE 2 ' fence template
define WP#EQN_FENCE_PAREN 0 ' ( .. )
define WP#EQN_FENCE_PAREN_LEFT 1 ' ( ..
define WP#EQN_FENCE_PAREN_RIGHT 2 ' .. )
define WP#EQN_FENCE_BRACE 3 ' { .. }
define WP#EQN_FENCE_BRACE_LEFT 4 ' { ..
define WP#EQN_FENCE_BRACE_RIGHT 5 ' .. }
define WP#EQN_FENCE_BRACKET 6 ' [ .. ]
define WP#EQN_FENCE_BRACKET_LEFT 7 ' [ ..
define WP#EQN_FENCE_BRACKET_RIGHT 8 ' .. ]
define WP#EQN_FENCE_VERT 9 ' | .. |
define WP#EQN_FENCE_VERT_LEFT 10 ' | ..
define WP#EQN_FENCE_VERT_RIGHT 11 ' .. |
define WP#EQN_FENCE_DVERT 12 ' || .. ||
define WP#EQN_FENCE_DVERT_LEFT 13 ' || ..
define WP#EQN_FENCE_DVERT_RIGHT 14 ' .. ||
define WP#EQN_FENCE_OVERBAR 15 ' single overbar
define WP#EQN_FENCE_DBLOVERBAR 16 ' double overbar
define WP#EQN_FENCE_UNDERBAR 17 ' singleunderline

```

```

define WP#EQN_FENCE_DBLUNDERBAR 18 ' doubleunder
line
define WP#EQN_FENCE_FLOOR 19 /* |_ ... _| */
define WP#EQN_FENCE_FLOOR_LEFT 20 /* |_ ... */
define WP#EQN_FENCE_FLOOR_RIGHT 21 /* ... _| */
define WP#EQN_FENCE_CEIL 22 /* |~ ... ~| */
define WP#EQN_FENCE_CEIL_LEFT 23 /* |~ ... */
define WP#EQN_FENCE_CEIL_RIGHT 24 /* ... ~| */
define WP#EQN_FENCE_BRACKET_2LEFT 25 /* [...[ */
define WP#EQN_FENCE_BRACKET_2RIGHT 26 /* ]...] */
define WP#EQN_FENCE_BRACKET_OPP 27 /* ]...[ */
define WP#EQN_FENCE_PAREN_BRACKET 28 /* (...) */
define WP#EQN_FENCE_BRACKET_PAREN 29 /* [...)] */
define WP#EQN_FRACTION 4 ' fractions or radicals
define WP#EQN_FRACTION_OVER 0 ' up OVER down
define WP#EQN_FRACTION_DIVIDE 1 ' sub up OVER sub
down
define WP#EQN_FRACTION_SLASH 2 ' up SLASH down
define WP#EQN_FRACTION_BY 3 ' sub up SLASH sub
down
define WP#EQN_FRACTION_VERTSLASH 4 ' 80 degrees bar
up 80SLASH down
define WP#EQN_SQRT 5
define WP#EQN_SQRT_SQRT 0 ' square root of
define WP#EQN_SQRT_NROOT 1 ' nth root of
define WP#EQN_SQRT_CURVYSQRT 2 ' curvy square root
symbol
define WP#EQN_SQRT_CURVYNROOT 3 ' curvy nth root
define WP#EQN_SQRT_SQRTOVER 4 ' body over sqrt
define WP#EQN_SQRT_MAXSUBS 5 ' max sub types for
radicals
define WP#EQN_SUBSUP 6 ' subscript and
superscript template
define WP#EQN_SUBSUP_SUB 0 ' subscript only
define WP#EQN_SUBSUP_SUP 1 ' superscript only
define WP#EQN_SUBSUP_SUBSUP 2 ' superscript and
subscript
define WP#EQN_SUBSUP_SUP_LEFT 3 ' superscript on left
side
define WP#EQN_SUBSUP_SUB_LEFT 4 ' subscript on left side
define WP#EQN_SUBSUP_SUBSUP_LEFT 5 ' sub and
superscripts on left side
define WP#EQN_SUBSUP_SUP_OVER6 ' superscript on top
define WP#EQN_SUBSUP_SUB_OVER7 ' superscript on top

```

```

define WP#EQN_SUBSUP_SUBSUP_OVER 8      ' superscript on
                                         top
define WP#EQN_SUBSUP_MAXSUBS 5         ' max sub types for
                                         subsup
define WP#EQN_SUM 7                    ' summation template
define WP#EQN_SUM_NONE 0               ' summation with no limits
define WP#EQN_SUM_UP 1                 ' up limit
define WP#EQN_SUM_DOWN 2              ' down limit
define WP#EQN_SUM_UPDOWN 3            ' up and down limits
define WP#EQN_SUM_SUP 4               ' down limit as sub
define WP#EQN_SUM_SUB 5               ' up limit as sup
define WP#EQN_SUM_SUBSUP 6           ' up and down limits as sup
                                         and sub
define WP#EQN_INTEGRAL_NONE 7         ' no limits
define WP#EQN_INTEGRAL_UP 8           ' up limit
define WP#EQN_INTEGRAL_DOWN 9         ' down limit
define WP#EQN_INTEGRAL_UPDOWN 10      ' up and down limits
define WP#EQN_INTEGRAL_SUP 11         ' up limit as sup
define WP#EQN_INTEGRAL_SUB 12         ' down limit as sub
define WP#EQN_INTEGRAL_SUBSUP 13      ' up and down limits as
                                         sup and sub
define WP#EQN_2INTEGRAL_NONE 14       ' no limits
define WP#EQN_2INTEGRAL_UP 15         ' up limit
define WP#EQN_2INTEGRAL_DOWN 16       ' down limit
define WP#EQN_2INTEGRAL_UPDOWN 17     ' up and down
                                         limits
define WP#EQN_2INTEGRAL_SUP 18        ' up limit as sup
define WP#EQN_2INTEGRAL_SUB 19        ' down limit as
                                         sub
define WP#EQN_2INTEGRAL_SUBSUP 20     ' up and down
                                         limits as sup and sub
define WP#EQN_3INTEGRAL_NONE 21       ' no limits
define WP#EQN_3INTEGRAL_UP 22         ' up limit
define WP#EQN_3INTEGRAL_DOWN 23       ' down limit
define WP#EQN_3INTEGRAL_UPDOWN 24     ' up and down
                                         limits
define WP#EQN_3INTEGRAL_SUP 25        ' up limit as sup
define WP#EQN_3INTEGRAL_SUB 26        ' down limit as
                                         sub
define WP#EQN_3INTEGRAL_SUBSUP 27     ' up and down
                                         limits as sup and sub
define WP#EQN_OINTEGRAL_NONE 28       ' no limits
define WP#EQN_OINTEGRAL_UP 29         ' up limit
define WP#EQN_OINTEGRAL_DOWN 30       ' down limit

```

```

define WP#EQN_OINTEGRAL_UPDOWN 31 ' up and down
                                limits
define WP#EQN_OINTEGRAL_SUP 32 ' up limit as sup
define WP#EQN_OINTEGRAL_SUB 33 ' down limit as
                                sub
define WP#EQN_OINTEGRAL_SUBSUP 34 ' up and down
                                limits as sup and sub
define WP#EQN_PRODUCT_NONE 35 ' no limits
define WP#EQN_PRODUCT_UP 36 ' up limit
define WP#EQN_PRODUCT_DOWN 37 ' down limit
define WP#EQN_PRODUCT_UPDOWN 38 ' up and down limits
define WP#EQN_PRODUCT_SUP 39 ' up limit as sup
define WP#EQN_PRODUCT_SUB 40 ' down limit as sub
define WP#EQN_PRODUCT_SUBSUP 41 ' up and down limits as
                                sup and sub
define WP#EQN_UNION_NONE 42 ' union no limits
define WP#EQN_UNION_UP 43 ' up limit
define WP#EQN_UNION_DOWN 44 ' down limit
define WP#EQN_UNION_UPDOWN 45 ' up and down limits
define WP#EQN_UNION_SUP 46 ' up limit as sup
define WP#EQN_UNION_SUB 47 ' down limit as sub
define WP#EQN_UNION_SUBSUP 48 ' up and down limits as
                                sup and sub
define WP#EQN_INTERS_NONE 49 ' intersection with no
                                limits
define WP#EQN_INTERS_UP 50 ' up limit
define WP#EQN_INTERS_DOWN 51 ' down limit
define WP#EQN_INTERS_UPDOWN 52 ' up and down limits
define WP#EQN_INTERS_SUP 53 ' up limit as sup
define WP#EQN_INTERS_SUB 54 ' down limit as sub
define WP#EQN_INTERS_SUBSUP 55 ' down limit as sub
define WP#EQN_SCRIPT_NONE 56 ' General function with no limits
define WP#EQN_SCRIPT_UP 57 ' up limit
define WP#EQN_SCRIPT_DOWN 58 ' down limit
define WP#EQN_SCRIPT_UPDOWN 59 ' up and down limits
define WP#EQN_SCRIPT_SUP 60 ' up limit as sup
define WP#EQN_SCRIPT_SUB 61 ' down limit as sub
define WP#EQN_SCRIPT_SUBSUP 62 ' down limit as sub
define WP#EQN_ARROW 8 ' labeled arrow
                                template
define WP#EQN_ARROW_LEFT_NONE 0 ' left arrow with
                                no limits
define WP#EQN_ARROW_LEFT_UP 1 ' left arrow with
                                up limit

```



```

define WP#EQN_ARROW_LEFT_DOWN      2      ' left arrow with
                                         down limit
define WP#EQN_ARROW_RIGHT_NONE     3      ' right arrow with
                                         no limits
define WP#EQN_ARROW_RIGHT_UP       4      ' right arrow with
                                         up limit
define WP#EQN_ARROW_RIGHT_DOWN     5      ' right arrow with
                                         down limit
define WP#EQN_ARROW_LTRT_NONE      6      ' left right arrow
                                         with no limits
define WP#EQN_ARROW_LTRT_UP        7      ' left right arrow
                                         with up limit
define WP#EQN_ARROW_LTRT_DOWN      8      ' left right arrow
                                         with down limit
define WP#EQN_MATRIX                9      ' matrix template
define WP#EQN_MATRIX_1ROW_2COL     0      ' matrix of size 1
                                         row 2 cols
define WP#EQN_MATRIX_2ROW_1COL     1      ' matrix of size 2
                                         rows 1 col
define WP#EQN_MATRIX_2ROW_2COL     2      ' matrix of size 2
                                         rows 2 cols
define WP#EQN_MATRIX_1ROW_3COL     3      ' matrix of size 1
                                         row 3 cols
define WP#EQN_MATRIX_3ROW_1COL     4      ' matrix of size 3
                                         rows 1 col
define WP#EQN_MATRIX_3ROW_3COL     5      ' matrix of size 3
                                         rows 3 cols
define WP#EQN_MATRIX_1ROW_NCOL     6      ' matrix of size 1
                                         row n cols
define WP#EQN_MATRIX_MROW_1COL     7      ' matrix of size m
                                         rows 1 col
define WP#EQN_MATRIX_MROW_NCOL     8      ' matrix of size m
                                         rows n cols
define WP#EQN_ATTR                  10     ' template attribute
define WP#EQN_ATTR_XNUDGE          0
define WP#EQN_ATTR_YNUDGE          1
define WP#EQN_NEXT                  11     ' next equation in pile

```