

```

%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
%
% HyperTIES C<=>NeWS interface.
% Don Hopkins
%
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%

```

```

C: #define GET_METRICS_TAG 1
C: #define NO_FONT_TAG 2
C: #define FOUND_FONT_TAG 3
C: #define GET_RECT_TAG 4
C: #define PAGE_SIZE_TAG 5
C: #define MEASURE_STAMP_TAG 6
C: #define USE_LINKED_PILE_TAG 7
C: #define USE_PARENT_PILE_TAG 8
#define GET_METRICS_TAG 1
#define NO_FONT_TAG 2
#define FOUND_FONT_TAG 3
#define GET_RECT_TAG 4
#define PAGE_SIZE_TAG 5
#define MEASURE_STAMP_TAG 6
#define USE_LINKED_PILE_TAG 7
#define USE_PARENT_PILE_TAG 8

```

```

cdef do_initialize(string pathname)

```

```

newprocessgroup
false setprintertermatch

```

```

/Font null def
/FontName null def
/FontSize null def
/TiesRootDirectory pathname (/) append def
/FilePos null def
/LastTID null def
/LastSelectionTime 0 def
/Pile null def
/PileDict 100 dict def
/StampDict 300 dict def
/TargetDict 300 dict def
/RasterDict 300 dict def

```

```

% Fake PileDict stuff
/Pages [] def

```

```

systemdict /PileDict PileDict put
systemdict /StampDict StampDict put
systemdict /TargetDict TargetDict put
systemdict /RasterDict RasterDict put

```

```

/polite {pause pause} def

```

```

systemdict /PieMenu known not {
    TiesRootDirectory (ties/piemenu.ps) append run
} if
systemdict /NeatWindow known not {
    TiesRootDirectory (ties/neatwin.ps) append run
} if

```

```

} if
systemdict /TIESWindow known not {
    TiesRootDirectory (ties/win.ps) append run
} if
systemdict /TextCanvas known not {
    TiesRootDirectory (ties/textcan.ps) append run
} if
systemdict /Target known not {
    TiesRootDirectory (ties/target.ps) append run
} if
systemdict /Stamp known not {
    TiesRootDirectory (ties/stamp.ps) append run
} if
systemdict /FmtDict known not {
    TiesRootDirectory (ties/fmt.ps) append run
} if

% systemdict /EmacsDict known { EmacsDict begin } if
% systemdict /EmacsUserDict known { EmacsUserDict begin } if
FmtDict begin userdict begin

%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%

cdef do_get_rect(x, y, width, height)
    => GET_RECT_TAG(x, y, width, height)
    name id GR

cdef do_make_pile(string class, int id, x, y, w, h)
    x y w h class id MP

cdef do_use_pile(id)
    id UP

cdef do_set_pile_name(string name)
    name SN

cdef do_find_font(string name, int size)
    name size FF

cdef no_font() => NO_FONT_TAG

cdef found_font() => FOUND_FONT_TAG

cdef do_use_font(string name, int size)
    name size UF

cdef do_get_metrics(height, ascent, descent)
    => GET_METRICS_TAG(height, ascent, descent)
    GM

cdef do_def_file_pos(string dir, string file, int offset, int len)
    [dir file offset len] DFP

cdef do_def_picture(string class, string name, int id)
    name id class DP

cdef do_put_picture(id, x, y)
    x y id PP

```

```

cdef do_measure_stamp(id, width, height) => MEASURE_STAMP_TAG(width, height)
    id MS

cdef do_put_string(string s, int x, int y)
    s x y PS

cdef do_def_target(string class, string name, int id)
    class name id DT

cdef do_put_target(id, string ref, x, y, width, height)
    x y width height ref id PT

cdef do_get_page_size(width, height) => PAGE_SIZE_TAG(width, height)
    GPS

cdef do_start_page()
    SP

cdef do_end_page()
    EP

cdef do_zap_pages()
    ZP

cdef do_start_line()
    SL

cdef do_end_line(x, y, w, h, name, pos, len)
    x y w h name pos len EL

cdef do_free_stamps()
    FS

cdef do_setup_definition_pile()
    SDP

cdef do_setup_controls_pile()
    SCP

cdef do_setup_contents_pile()
    SAP

cdef do_name_pile(string name)
    name NP

cdef do_use_linked_pile(string name, id) => USE_LINKED_PILE_TAG(id)
    name ULP

cdef do_use_parent_pile(id) => USE_PARENT_PILE_TAG(id)
    UPP

cdef do_def_local(string name)
    name DFL

cdef do_def_global(string name)
    name DFG

```

```
cdef do_send_ps_string(string str)
    str

cdef do_send_ps_int(i)
    i
```