**Appendix C: Diagram for the organization of the macros in H5T.c**

H5T\_INIT\_TYPE

GUTS=FLOATLE, FLOATBE, DOUBLELE, DOUBLEBE, SINTLE, SINTBE, UINTLE, UINTBE, OPAQ, etc.

GLOBAL=H5T\_STD\_I8LE\_g, H5T\_IEEE\_F32BE\_g, H5T\_NATIVE\_HSIZE\_g, H5T\_NATIVE\_B16\_g, etc.

CRT\_TMPL=COPY or ALLOC

BASE=native\_double, native\_uint, std\_u8le, std\_u16be, std\_u32le, std\_u64be, etc.

SIZE\_TMPL=SET or NOSET

SIZE=1, 2, 4, or 8

Step 1

Step 2

Step 3

Step 4

H5I\_register

H5\_GLUE3

H5T\_INIT\_TYPE\_ + GUTS

+ \_CORE

H5\_GLUE3

H5T\_INIT\_TYPE\_ + SIZE\_TMPL

+ \_SIZE

H5\_GLUE3

H5T\_INIT\_TYPE\_ + CRT\_TMPL

+ \_CREATE

H5T\_INIT\_TYPE\_COPY\_CREATE

H5T\_INIT\_TYPE\_ALLOC\_CREATE

H5T\_INIT\_TYPE\_ALLOC\_COMMON

H5T\_INIT\_TYPE\_SET\_SIZE

H5T\_INIT\_TYPE\_NOSET\_SIZE

H5T\_INIT\_TYPE\_TIME\_CORE

H5T\_INIT\_TYPE\_BITFIELD\_CORE

H5T\_INIT\_TYPE\_UINT\_COMMON

H5T\_INIT\_TYPE\_UINTBE\_CORE

H5T\_INIT\_TYPE\_UINTLE\_CORE

H5T\_INIT\_TYPE\_SINT\_COMMON

H5T\_INIT\_TYPE\_SINTBE\_CORE

H5T\_INIT\_TYPE\_SINTLE\_CORE

H5T\_INIT\_TYPE\_DOUBLEVAX\_CORE

H5T\_INIT\_TYPE\_FLOATVAX\_CORE

H5T\_INIT\_TYPE\_DOUBLE\_COMMON

H5T\_INIT\_TYPE\_DOUBLEBE\_CORE

H5T\_INIT\_TYPE\_DOUBLELE\_CORE

H5T\_INIT\_TYPE\_FLOAT\_COMMON

H5T\_INIT\_TYPE\_REF\_COMMON

H5T\_INIT\_TYPE\_STRING\_COMMON

H5T\_INIT\_TYPE\_FLOATBE\_CORE

H5T\_INIT\_TYPE\_FLOATLE\_CORE

H5T\_INIT\_TYPE\_NUM\_COMMON

H5T\_INIT\_TYPE\_REGREF\_CORE

H5T\_INIT\_TYPE\_OBJREF\_CORE

H5T\_INIT\_TYPE\_FORSTRING\_CORE

H5T\_INIT\_TYPE\_CSTRING\_CORE

H5T\_INIT\_TYPE\_OPAQ\_CORE

H5T\_INIT\_TYPE\_OFFSET\_CORE