COMMENT   Enhancement Request Number 45
ajosey:rdg.opengroup.org   Bug in XBD (C99 TC2) (rdvk# 4)
[ISO C TC2 #34]   Thu, 24 Feb 2005 17:17:40 GMT

Accept_____   Accept as marked below_____   Duplicate_____   Reject_____OPEN
Rationale for rejected or partial changes:

Page: 210   Line: 7419   Section: complex.h

Problem:
ISO C TC2 #34

Action:

Change From:

imaginary
    Expands to _Imaginary.
_Imaginary_I
    Expands to a constant expression of type const float _Imaginary with
    the value of the imaginary unit.

To:

I
    Expands to _Complex_I

[Note from gwc:

I think there may be a problem here with C99 (as amended by TC2).
As far as I can see there is no longer any mention of the imaginary
macro in normative text, which means implementations are not allowed
to define it (because it is not reserved for use by the
implementation). Yet in Annex G it still recommends (in informative
text) that implementations which define __STDC_IEC_559_COMPLEX__
should define the imaginary macro. It also recommends that these
implementations should define I "to be _Imaginary_I (not _Complex_I
as stated in 7.3)". Yet implementations that do so would not comply
with the normative text in 7.3 which requires I to be defined as
_Complex_I.

Assuming that the intention was to allow implementations to follow
the recommendations in Annex G, but by an oversight the necessary
normative text to allow them to do so was omitted from TC2, perhaps
in POSIX we should keep the current text but mark some of it CX?]

COMMENT   Enhancement Request Number 46
ajosey:rdg.opengroup.org   Bug in XBD (C99 TC2) (rdvk# 5)
[ISO C TC2 #35]   Thu, 24 Feb 2005 17:17:40 GMT

Page: 210   Line: 7424   Section: complex.h

Problem:
ISO C TC2 #35

Action:

Delete the text

"I

    Expands to either _Imaginary_I or _Complex_I. If _Imaginary_I is
    not defined, I expands to _Complex_I.

The macros imaginary and _Imaginary_I shall be defined if and only if
the implementation supports imaginary types."

COMMENT   Enhancement Request Number 47
ajosey:rdg.opengroup.org   Bug in XBD (C99 TC2) (rdvk# 6)
[ISO C TC2 #36]   Thu, 24 Feb 2005 17:17:40 GMT

Accept_____   Accept as marked below_____ Duplicate_____   Reject_____OPEN
Rationale for rejected or partial changes:

Page: 210   Line: 7428   Section: complex.h

Problem:
ISO C TC2 #36

Action:

Change From:

An application may undefine and then, perhaps, redefine the complex,
imaginary, and I macros.

To:
An application may undefine and then, perhaps, redefine the complex,
and I macros.