Proposal for C23 WG14 N2617

Title:Fix for decimal SNAN prefixesAuthor, affiliation:C FP groupDate:2020-11-15Proposal category:EditorialReference:N2476, N2602, N2573

In (SC22WG14.18460) Decimal macros in float.h, Joseph Myers wrote:

Why are the decimal signaling NaN macros D32_SNAN, D64_SNAN, D128_SNAN when all the other decimal macros in float.h use prefixes DEC32_, DEC64_, DEC128_ (as, indeed, do the DECN_SNAN and DECNX_SNAN macros in the latest version of TS3 as Annex)? That's what N2476 had, but it's clearly inconsistent with the other macros.

Moving the macros from **<math.h>** to **<float.h>** was intended to include moving to the prefix scheme in **<float.h>**. though this change was missing in the relevant proposals N2476 and N2602. So, yes, the prefixes should be **DEC***N*_ instead of **D***N*_. The following suggested changes give the intended prefixes.

Suggested changes:

1. Change all instances of D32_SNAN, D64_SNAN, and D128_SNAN to DEC32_SNAN, DEC64_SNAN, and DEC128_SNAN, respectively.

2. Change one instance of **D***N***_SNAN** to **DEC***N***_SNAN**.