Proposal for C23
WG14 N2617

Title: Fix for decimal SNAN prefixes
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Proposal category: Editorial
Reference: 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 DECN_ instead of DN_. 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 DN_SNAN to DECN_SNAN.