## ARM64 Floating Point Conversions

Floating point to floating point

Floating point to general-purpose

General purpose to floating point

BFCVT Hn, Sn : 32-bit S $\rightarrow$ 16-bit H FCVT An, Bn : H/S/D $\rightarrow$ H/S/D
round to 32 - or 64-bit integer in S or D
FRINT32 ._ X : current rounding mode
FRINT64 $\quad \mathbf{Z}$ : round towards zero
round to integral in $\mathrm{H}, \mathrm{S}$ or D
TA : to nearest, ties to Away
TI : using current rounding mode
TM : towards $-\infty$
TN : to nearest, ties to Even
TP : towards $+\infty$
TX : exact
TZ : towards zero
round to integer in W or X
TA : to nearest, ties to Away
TM : towards $-\infty$
FCV - TN : to nearest, ties to Even
.- S to signed integer
$\mathbf{U}$ to unsigned integer
TP : towards $+\infty$
TZ : towards zero

FJCVTZS : convert 64-bit D to 32-bit signed integer in W rounding towards zero

SCVTF : converts signed integer in W or X to $\mathrm{H}, \mathrm{S}$ or D
UCVTF : converts unsigned integer in W or X to $\mathrm{H}, \mathrm{S}$ or D using rounding mode in FPCR

