WFIT

Wait For Interrupt with Timeout is a hint instruction that indicates that the PE can enter a low-power state and remain there until either a local timeout event or a wakeup event occurs. For more information, see *Wait For Interrupt*.

As described in *Wait For Interrupt*, the execution of a `WFIT` instruction that would otherwise cause entry to a low-power state can be trapped to a higher Exception level.

System
(FEAT_WFxT)

31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
1	1	0	1	0	1	0	1	0	0	0	0	0	0	1	1	0	0	0	1	0	0	0	0	0	0	1	Rd				

WFIT <Xt>

```
if !IsFeatureImplemented(FEAT_WFxT) then UNDEFINED;

integer d = UInt(Rd);
```

Assembler Symbols

<Xt>	Is the 64-bit name of the general-purpose source register, encoded in the "Rd" field.

Operation

```
integer localtimeout = UInt(X[d, 64]);

if Halted() && ConstrainUnpredictableBool(Unpredictable_WFxTDEBUG) then
    EndOfInstruction();

Hint_WFI(localtimeout, WFxType_WFIT);
```


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