

```

wichmann:~/testers% date
Mon Jan 18 22:49:21 EST 2021
wichmann:~/testers% gforth xftester-test.fs
Using xftester.fs
TESTING XT-A= XT-A@ XT-A!
TESTING SET-FT-MODE-EXACT FT-A= FT-A@ FT-A!
TESTING proper relative comparison order for FT-A=
TESTING X{ X-> }X
TESTING F{ F-> }F
TESTING T{ -> }T
TESTING FT-TEST= FT-DATUM=
Inspect the error line:
INCORRECT FRESULT: T{ SET-FT-MODE-EXACT 1E -> 1.0000000001E }T
fresults: 1.
  fgoals: 1.0000000001
Inspect 3 error lines:
INCORRECT FRESULT: T{ 0E -> -0E }T
fresults: 0.
  fgoals: -0.
INCORRECT FRESULT: T{ 1E 0E f/ -> -1E 0E f/ }T
fresults: inf
  fgoals: -in
INCORRECT FRESULT: T{ 0E 0E f/ -> 0E 0E f/ fnegate }T
fresults: nan
  fgoals: nan
TESTING FT-ABS= FT-REL= FT-AREL= FT-REL0=
      SET-FT-MODE-ABS SET-FT-MODE-REL SET-FT-MOD-AREL SET-FT-MODE-REL0
Using FT-ABS-TOLERANCE: 5.000000000000000E-4
      FT-REL-TOLERANCE: 9.9999999999891E-4
      FT-AREL-TOLERANCE: 9.99950002499767E-5
Inspect 5 error lines:
INCORRECT FRESULT: T{ SET-FT-MODE-ABS 1.001E -> 1E }T
fresults: 1.001
  fgoals: 1.
INCORRECT FRESULT: T{ SET-FT-MODE-REL 1.001E10 -> 1E10 }T
fresults: 10010000000.
  fgoals: 9999999999.99996
INCORRECT FRESULT: T{ SET-FT-MODE-AREL 1.00011E12 -> 1E12 }T
fresults: 1000110000000.
  fgoals: 99999999999.997
INCORRECT FRESULT: T{ SET-FT-MODE-REL0 1.001E -> 1E }T
fresults: 1.001
  fgoals: 1.
INCORRECT FRESULT: T{ SET-FT-MODE-REL0 1.001E10 -> 1E10 }T
fresults: 10010000000.
  fgoals: 9999999999.99996

```

TESTING ttester-xf fp example

TESTING exceptions

TESTING errors

Inspect the error lines:

WRONG NUMBER OF XRESULTS: T{ 1 -> }T

xresults: 1

xgoals: none

WRONG NUMBER OF XRESULTS: T{ -> 1 }T

xresults: none

xgoals: 1

INCORRECT XRESULT: T{ 1 -> 2 }T

xresults: 1

xgoals: 2

WRONG NUMBER OF FRESULTS: T{ 1E -> }T

fresults: 1.

fgoals: none

WRONG NUMBER OF FRESULTS: T{ -> 1E }T

fresults: none

fgoals: 1.

INCORRECT FRESULT: T{ 1E -> 2E }T

fresults: 1.

fgoals: 2.

INCORRECT XRESULT: T{ 1 -> 2 3E }T

xresults: 1

xgoals: 2

WRONG NUMBER OF FRESULTS: T{ 1 -> 2 3E }T

fresults: none

fgoals: 3.

INCORRECT XRESULT: T{ 2 3E -> 1 }T

xresults: 2

xgoals: 1

WRONG NUMBER OF FRESULTS: T{ 2 3E -> 1 }T

fresults: 3.

fgoals: none

WRONG NUMBER OF XRESULTS: T{ 1E -> 2E 3 }T

xresults: none

xgoals: 3

INCORRECT FRESULT: T{ 1E -> 2E 3 }T

fresults: 1.

fgoals: 2.

WRONG NUMBER OF XRESULTS: T{ 2E 3 -> 1E }T

xresults: 3

xgoals: none

INCORRECT FRESULT: T{ 2E 3 -> 1E }T

fresults: 2.

fgoals: 1.

Inspect the more elaborate error reports

INCORRECT XRESULT: T{ 1 2 -> 3 2 }T

xresults: 1 2

xgoals: 3 2

INCORRECT XRESULT: T{ 1 2 3 -> 4 2 3 }T

xresults: 1 2 3

xgoals: 4 2 3

INCORRECT XRESULT: T{ 1 2 3 -> 3 4 3 }T

xresults: 1 2 3

xgoals: 3 4 3

INCORRECT XRESULT: T{ 1 2 -> 3 2 }T

xresults: 1 2

xgoals: 3 2

INCORRECT XRESULT: T{ 1 2 3 -> 4 2 3 }T

xresults: 1 2 3

xgoals: 4 2 3

INCORRECT XRESULT: T{ 1 2 3 -> 3 4 3 }T

xresults: 1 2 3

xgoals: 3 4 3

WRONG NUMBER OF XRESULTS: T{ 1E 2E -> 1E 3E 3 4 }T

xresults: none

xgoals: 3 4

INCORRECT FRESULT: T{ 1E 2E -> 1E 3E 3 4 }T

fresults: 1. 2.

fgoals: 1. 3.

WRONG NUMBER OF XRESULTS: T{ 1E 2E 3 4 -> 1E 3E }T

xresults: 3 4

xgoals: none

INCORRECT FRESULT: T{ 1E 2E 3 4 -> 1E 3E }T

fresults: 1. 2.

fgoals: 1. 3.

INCORRECT FRESULT: T{ 1E 2E 3E -> 4E 2E 3E }T

fresults: 1. 2. 3.

fgoals: 4. 2. 3.

INCORRECT FRESULT: T{ 1E 2E 3E -> 3E 4E 3E }T

fresults: 1. 2. 3.

fgoals: 3. 4. 3.

INCORRECT FRESULT: T{ 1E -> 2E }T

fresults: 1.

fgoals: 2.

The following are actually syntax errors:

WRONG NUMBER OF XRESULTS: T{ 1 }T

WRONG NUMBER OF FRESULTS: T{ 1E }T

This syntax error is not reported: T{ }T

Unexpected XT-ERRORS: 0

Unexpected FT-ERRORS: 0

Gforth 0.7.9\_20191226

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