[6.11] Rounding floating point numbers

To round a floating point number *n* for further use in calculations, use

```
expr(format(n,fcode))
```

where *fcode* is a format string. To round a number to a specific number of fractional decimal digits, use *fcode* of "Fd", where 'd' is the number of digits. For example, for three fractional digits, use

```
expr(format(1.23456789,"F3"))
```

which returns 1.235

To round a number to a given number of significant digits, use *fcode* of "Sd", where (d + 1) is the number of significant digits. For example, for 6 signficant digits, use

```
expr(format(1.23456789E10,"S5"))
```

which returns 1.23457E10

This method works by using the *format()* function to do the rounding, then using *expr()* to convert the string result back to a number. The distinction between fractional digits and significant digits is made by using "Fd" for fixed format, or "Sd" for scientific format.

(Credit to Andrew Cacovean)