
Subject: Re: parser ?

Posted by [R. Bauer](#) on Tue, 07 Oct 1997 07:00:00 GMT

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Martin Schultz wrote:

>
> Hi,
>
> now that I have written this little widget "calculator" which works
> really fine and computes almost anything I want (which is not much
> more than the occasional +,-,*,/ or logarithm, I must admit), I am
> slowly getting sick of clicking my way through a bit more nested
> formulas, especially when I have to repeat the same calculation with
> different data sets. I already designed my calculator to return a
> formatted string describing the arithmetic operations that it performed,
> but now I am looking for a way to read these strings back in and do
> calculations as a batch job. Is there any way to use the build in parser
> of IDL ? Or has anyone written something like this (which is well enough
> documented so that I could adapt it to my needs) ? I have also briefly
> thought about writing out the equations in a file tmp_func.pro or
> something alike, and then use EXECUTE (or whatever would serve the
> purpose) in order to compile and call the procedure/function that has
> been automatically produced.
>
> Any ideas appreciated,
> Thanks,
> Martin.
>
>

Hi Martin,

I have done something in the same way to calculate units.

Here is my idea how to handle it:

```
value=5000.
```

```
term=trans_unit('cm','km')
```

```
help,term
```

```
TERM          STRING    = '*0.0100/1000.'
```

```
IF strpos(term,',') GE 0 THEN a=execute('result=(value(*)'+term) $
```

```
ELSE $
```

```
a=execute('result=value(*)'+term)
```

```
IF n_elements(result) EQ 1 THEN result = (result)(0)
```

```
help,result
```

RESULT FLOAT = 0.0500000

Re

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