Subject: Re: using an unlnown number of keywords
Posted by Liam E. Gumley on Mon, 22 Oct 2001 18:47:42 GMT
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Sean Raffuse wrote:
>
> David Fanning <david@dfanning.com> wrote in message
> news:MPG.163a5b3f51d8f2ea989719@news.frii.com...
>> Sean Raffuse (sean@me.wustl.edu) writes:
>>
>>> I'm trying to write a more or less universal procedure that takes a data
>>> structure and prints the variables out one by one one a line in an ascii
>>> file. The problem is that the structure could have any number of
> variables.
>>> I want to do this:
>>>
>>> printf, lun, structure.var1, structure.var2, structure.var3, . . .,
>>> structure.varN
>>>
>>> If I know N, is there a way to do this without resorting to N cases?
>>
>> How about something like this:
>>
>> numTags = N_Tags(structure)
>> PrintF, lun, structure, Format='(' + StrTrim(numTags,2) + 'F10.2)'
>>
> This would work fine if I didn't have different data types. Strings (of
> various lengths) may be mixed with floats and integers. Any other ideas out
> there in IDL expert land??

Why not use default formatting? For example:

```
IDL> a = {var1:indgen(30), var2:['a', 'b', 'c'], var3:findgen(9)}
IDL> print, a
{      0       1       2       3       4       5       6       7
       8       9      10      11      12      13      14      15
      16      17      18      19      20      21      22      23
      24      25      26      27      28      29
a b c
      0.00000      1.00000      2.00000      3.00000      4.00000
      5.00000      6.00000      7.00000      8.00000
}
```

Each variable starts on a new line in the printed output.

Cheers,
Liam.
Practical IDL Programming