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Subject: Re: Forcing READ\_ASCII output to be a set of strings...  
Posted by [Jonathan Greenberg](#) on Mon, 14 Mar 2005 21:34:48 GMT  
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I actually kicked a backwards compatible version of this to the IDL help, and also uploaded it to the RSI user contrib website. You are right, I probably should have renamed the file (we'll see if IDL bounces the upload and asks me to rename it), but here are the mods I made to the "official" read\_ascii release:

\*\*\*

Function call mod:

```
function read_ascii_string, $
  file, $          ; IN:
  RECORD_START=recordStart, $  ; IN: (opt)
  NUM_RECORDS=numRecords, $    ; IN: (opt)
  TEMPLATE=template, $        ; IN: (opt)
  DATA_START=dataStart, $     ; IN: (opt)
  DELIMITER=delimiter, $      ; IN: (opt)
  MISSING_VALUE=missingValue, $ ; IN: (opt)
  COMMENT_SYMBOL=commentSymbol, $ ; IN: (opt)
;  FIELDS=fields, $          ; IN: (opt) [not implemented]
  VERBOSE=verbose, $          ; IN: (opt)
  HEADER=header, $            ; OUT: (opt)
  COUNT=count, $              ; OUT: (opt)
; **** JONATHAN'S MOD ****
  DATA_TYPE=data_type        ; IDL data type (opt)
```

Modifying the default data\_type without needing to use a template:

```
; Keeps the default to floating point
  if n_elements(data_type) eq 0 then data_type=4
  fieldTypesUse = REPLICATE(data_type, fieldCountUse)
```

\*\*\*

This would cause zero problems, as far as I can tell, if a user just swapped this in (you'll note that I kept the default a floating point).

The reason I didn't want to use a template was I didn't see a quick way to make it apply a string format to an arbitrarily long ascii file (e.g. If I add a new column to my DB, don't I have to modify the ascii template each time?)

The reason I thought this would be better as a text default is that you can easily go from string -> number, but you can't go backwards. Considering

the input is text, why would they just assume it is filled with floating point numbers? It appears to be completely arbitrary... A string format appears to be the most "generalized" form you could use.

--j

On 3/14/05 12:51 PM, in article 113bua0b4hdv2a2@corp.supernews.com, "Michael Wallace" <mwallace.no.spam@no.spam.swri.edu.invalid> wrote:

> Jonathan Greenberg wrote:

>> I kinda answered my own question -- I took the read\_ascii.pro that IDL distributes and simply changed the default behavior on this line:

>>  
>> fieldTypesUse = REPLICATE(4L, fieldCountUse)

>>  
>> To

>>  
>> fieldTypesUse = REPLICATE(7L, fieldCountUse)

>>  
>> This appears to work fine... I'm kicking IDL a request to modify this so it'll default to a user-defined format...

>>  
>  
> Um, this is dangerous. First, if you ever want to distribute this application, or at least give it to someone else, you'll have to make the same modification in their IDL install. It can be *very* problematic.  
>  
> Second, why should the default be string rather than float? Just because you have a need to use strings for this particular application doesn't mean that RSI should change their defaults. For default values, a floating point number is the best assumption to make. If the default values don't work for you, use a template. This is why templates exist...  
>  
> -Mike

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