"Had a Strange DATE" – problem solved. Now as SAS gets older will ANYDT do?

Venky Chakravarthy, BioPharma Data Services
http://www.biopharmadataservices.com

```
*-----------------------------------;
*             EXAMPLE #1            ;
*-----------------------------------;
* Has Both - FORMAT and INFORMAT. ;
*-----------------------------------;
*  NOTE: Writing and Reading a    ;
*        "Good" DATE.             ;
*-----------------------------------;
data _null_ ;
   MSUGday = today() ;
   put MSUGday = date9. ;
run ;

data _null_ ;
   input MSUGday : date9. ;
   put MSUGday = WORDDATE. ;
   cards ;
05Nov2009
;
run ;
```

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```
*-----------------------------------;
*             EXAMPLE #2            ;
*-----------------------------------;
* Has a FORMAT but NO INFORMAT.     ;
*-----------------------------------;
*  NOTE: Reading a "Not So Good"    ;
*        DATE.                      ;
*-----------------------------------;

data _null_ ;
   input @1 txtdate $char20. ;
   part1 = scan(txtdate,2,', ') ;
   part2 = substr(txtdate,1,3) ;
   part3 = scan(txtdate,3,', ') ;
   parts = trim(part1)||
           trim(part2)||
           trim(part3) ;
   put part1= part2= part3= parts= ;
   MSUGday = input (parts,date9.) ;
   put MSUGday = MMDDYY10. ;
   cards ;
November 5, 2009
;
run ;
```

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```
*----------------------------------;
*             EXAMPLE #3           ;
*----------------------------------;
* Has a FORMAT but NO INFORMAT.    ;
*----------------------------------;
*  NOTE: Reading a "Not So Good"   ;
*        DATE with Your Own        ;
*        INFORMAT.                 ;
*----------------------------------;

data cntlin ;
   retain fmtname "baddate" type "I" ;
   do label = "01Jan2009"d to
              "31dec2009"d ;
      start = trim(put(label,worddate.-L)) ;
      output ;
   end ;
run ;

proc format cntlin = cntlin ;
run ;

data _null_ ;
   input d baddate. ;
   put d = : mmddyy10. ;
   cards ;
November 5, 2009
;
run ;
```

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```
*-----------------------------------;
*             EXAMPLE #4            ;
*-----------------------------------;
* Has NO FORMAT and NO INFORMAT.    ;
*-----------------------------------;
*  NOTE: Reading a "Strange"        ;
*        DATE with Your Own         ;
*        INFORMAT.                  ;
*-----------------------------------;
proc format ;
   picture STRANGE low-high =
   '%Y/%b/%0d'
   (datatype = date) ;
run ;

data cntlin2 ;
   retain fmtname "MyNewDt" type "I" ;
   do label = "01Jan2009"d to
              "31dec2009"d ;
      start = put(label,STRANGE11.-L) ;
      output ;
   end ;
   format label date9. ;
run ;

proc format cntlin = cntlin2 ;
run ;

data _null_ ;
   input MSUGday MyNewDt. ;
   put MSUGday = : worddate. ;
   cards ;
2009/NOV/05
run ;
```

"Had a Strange DATE" – problem solved. Now as SAS gets older will ANYDT do?

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```
*----------------------------------;
*             EXAMPLE #5           ;
*----------------------------------;
* Has FORMAT and INFORMAT but any ;
* of 9 INFORMAT values occur.     ;
*----------------------------------;
*  NOTE: Reading a "Mixed Up"     ;
*        DATE with ANYDTDTE       ;
*        INFORMAT.                ;
*        Notice the ambiguity in  ;
*        the 3rd and the 5th      ;
*        values                   ;
*----------------------------------;

*options datestyle = MDY ;

data _null_ ;
  input checkdate : anydtdte. ;
  put checkdate=:date9. ;
  cards ;
05NOV2009
05NOV2009 14:30:12.9
05112009
20091105
11052009
NOV2009
14:30:12.9
20091105
05Q4
run ;
```

"Had a Strange DATE" – problem solved. Now as SAS gets older will ANYDT do?

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```
*----------------------------------;
*             EXAMPLE #6           ;
*----------------------------------;
* Invalid DATE values do not       ;
* receive a INVALID NOTE with      ;
* ANYDTDTE but it does with        ;
* other date INFORMATS.            ;
*----------------------------------;
*  NOTE: DATE. Informat used.      ;
*----------------------------------;

/* Example with ANYDTDTE */
data _null_ ;
  input mydate anydtdte20. ;
  put mydate=:date9. ;
  cards ;
05November2009
November 5, 2009
run ;

/* Example with DATE */
data _null_ ;
  input mydate : DATE14. ;
  put mydate=:date9. ;
  cards ;
05November2009
run ;
```

“Had a Strange DATE” – problem solved. Now as SAS gets older will ANYDT do?

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http://www.biopharmadataservices.com

```
*----------------------------------;
*             EXAMPLE #7           ;
*----------------------------------;
* ANYDTDTE also reads impossible  ;
* date values and reports a wrong ;
* date.                            ;
*----------------------------------;
*  NOTE: 9.2 has NOT corrected.   ;
*----------------------------------;

/* Bugs */
data _null_ ;
  dob=input("110009",anydtdte6.);
  put dob mmddyy10.;
run;
```

"Had a Strange DATE" – problem solved. Now as SAS gets older will ANYDT do?

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http://www.biopharmadataservices.com

```
*----------------------------------;
*             EXAMPLE #8           ;
*----------------------------------;
* ANYDTDTE has trouble reading    ;
* values after the 15th and before;
* the 22nd when DDMMYYYY INFORMAT ;
*----------------------------------;
*  NOTE: 9.2 has corrected.       ;
*----------------------------------;

data _null_ ;
  input date anydtdte8.;
  format date mmddyy10.;
  put date= ;
  datalines;
11052009
15112009
16112009
17112009
21112009
22112009
run ;
```

“Had a Strange DATE” – problem solved. Now as SAS gets older will ANYDT do?

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```
*----------------------------------;
*             EXAMPLE #9           ;
*----------------------------------;
* The WORDDATE value is not a      ;
* documented INFORMAT but works    ;
* with ANYDTDTE.                   ;
*----------------------------------;
*  NOTE: Unintended "Feature" and ;
*        a good one.               ;
*----------------------------------;

data _null_ ;
  input mydate anydtdte20.;
  format mydate date9.;
  put mydate = ;
  cards ;
November 5, 2009
run;
```