

STATUS – Use of new format and tool for conversion

(N. Otsuka, 2023-08-03, CP-D/1088)

The NRDC 2023 meeting approved the extended format of STATUS proposed in Memo CP-D/1055 (Rev.). Use of the new format would be preferable for machine processing. If the compiler prefers to keep the reference in free text for some reason, its code string should not be used in the free text (c.f. LEXFOR “Free text”).

Examples (machine readable, recommended):

(TABLE, , O.Shcherbakov+, J,NSTS, 2, 230, 2022) Table 1

(TABLE, , A.B.Laptev+, C, 2007SANIB, , 462, 2007) Table 1

Examples (free text):

(TABLE) Table 1 of J.Nucl.Sci.Technol.Suppl.2 (2022) 230

(TABLE) Table 1 of Proc. Conf. Fiss. Prop. Neutron-Rich Nucl., Sanibel Island 2007, p.462

Forbidden:

(TABLE) Table 1 of J,NSTS, 2, 230, 2022

(TABLE) Table 1 of C, 2007SANIB, , 462, 2007

To assist compilers, I wrote a small Perl script for conversion to the new format. It reads an entry or tape and print it after addition of a STATUS line having the first author and primary reference as a code string. The compiler should delete the inserted lines (+) or original line (-) after conversion. The script is appended to this memo. (I can run it for you.)

Example (original lines must be deleted after conversion):input

AUTHOR (E.Gadioli, E.Gadioli-Erba, J.J.Hogan, B.V.Jacak)
 REFERENCE (J, PR/C, 29, 76, 1984)
 ...
 STATUS (TABLE) Data taken from Tables I and II of reference.
 No reply to author proof.

output

AUTHOR (E.Gadioli, E.Gadioli-Erba, J.J.Hogan, B.V.Jacak)
 REFERENCE (J, PR/C, 29, 76, 1984)
 ...
 STATUS + (TABLE, , E.Gadioli+, J, PR/C, 29, 76, 1984)
 + Data taken from Tables I and II of reference.
 STATUS - (TABLE) Data taken from Tables I and II of reference. # **for deletion**
 No reply to author proof.

Example (inserted lines must be deleted after conversion):

input

```
AUTHOR      (G.J.Schmid,B.J.Rice,R.M.Chasteler,M.A.Godwin,
             G.C.Kiang,L.L.Kiang,C.M.Laymon,R.M.Prior,D.R.Tilley,
             H.R.Weller)
REFERENCE    (J,PR/C,56,2565,1997)
             (J,PR/C,55,2700,1997)
             (J,NP/A,607,139,1996)
             (J,PRL,76,3088,1996)
             (J,PR/C,52,1732,1995)
...
STATUS      (TABLE) Data received in email from E.A. Wulf, Feb. 4
             and Feb. 10, 1999.
```

output

```
AUTHOR      (G.J.Schmid,B.J.Rice,R.M.Chasteler,M.A.Godwin,
             G.C.Kiang,L.L.Kiang,C.M.Laymon,R.M.Prior,D.R.Tilley,
             H.R.Weller)
REFERENCE    (J,PR/C,56,2565,1997)
             (J,PR/C,55,2700,1997)
             (J,NP/A,607,139,1996)
             (J,PRL,76,3088,1996)
             (J,PR/C,52,1732,1995)
...
STATUS      + (TABLE,,G.J.Schmid+,J,PR/C,56,2565,1997)          # for deletion.
             + Data received in email from E.A. Wulf, Feb. 4    # for deletion.
STATUS      - (TABLE) Data received in email from E.A. Wulf, Feb. 4
             and Feb. 10, 1999.
```

Perl script for conversion:

```
print "Input file name  -> ";
$filein=<STDIN>;
chomp($filein);
open(IN,"./$filein");
@line=<IN>;
close(IN);
$fileout=$filein.".mod";
open(OUT,">./$fileout");
select(OUT);

foreach $line (@line){
  if ($line=~/^SUBENT/){
    $san=substr($line,19,3);
  }elseif ($line=~/^AUTHOR/ and $san eq "001"){
    $char=substr($line,12,54);
    @auth=split(/,/,,$char);
    if (@auth==1){
      $fauth=$auth[0];
      $fauth=~s/\).+$///;
    }else{
      $fauth=$auth[0]."+";
    }
  }elseif ($line=~/^REFERENCE/ and $san eq "001"){
    $char=substr($line,11,55);
    $n=0;
    @char=split(/,/,,$char);
    $ref_code="";
    foreach $char (@char){
      if ($char eq "("){
        $n++;
      }elseif ($char eq ")"){
        $n--;
      }
    }
    $ref_code=$ref_code.$char;
    if ($n==0){
      $ref_code=~s/^\(//;
      $ref_code=~s/\)$//;
      last;
    }
  }
}
```

```

}
$keyword=substr($line,0,9);
$pointer=substr($line,10,1);
$char=substr($line,11,7);
if ($char eq "(TABLE)" or $char eq "(CURVE)") {
    if ($char =~ /TABLE/) {
        $status_code="TABLE";
    } else {
        $status_code="CURVE";
    }
    $freetext=substr($line,18,48);
    $freetext =~ s/\s+$//;
    $code="($status_code,, $fauth,$ref_code)";
    print $keyword."+".$pointer.$code;
    $length_code=length($code);
    $length_freetext=length($freetext);
    if ($length_code+$length_freetext>56) {
        print "\n";
        print "          + ";
    }
    print $freetext;
    print "\n";
    $char=substr($line,11,55);
    print $keyword."-".$pointer.$char;
    print "\n";
} else {
    print $line;
}
}
close(OUT);

```