DAL: National Characters Localization in TSO and VTAM (1/93)

Article Created: 28 January 1993

TOPIC ---

I have a question about National Characters. DAL Tech Note #4 states
that version 1.3.6 of DAL supports national characters: is this true? I am
currently using both VTAM and TSO; on the DAL VTAM 1.3.5 tape there is a
"DALLOCAL" macro which I have customized, but on the DAL TSO 1.3.5 tape I
haven't been able to locate the same macro.

DISCUSSION ---

As for the localization of the code tables, the DAL Tech Note #4 was not
quite accurate in the following ways:

• It was actually available for TSO, VTAM and VM as of the 1.3.5 release of
  the servers. However, it was not quite correct on the tape, hence the
  note specifying release 1.3.6 which does not exist for TSO, VTAM, or VM.
  We are including the corrected DALLOCAL member which you should use.

• For the TSO server, the code table and its JCL is located in the DALLOCAL
  member in the DAL.CLIST library. Do not use the one that came on the
  tape, use the one included here instead.

We will have the Tech Note updated to clarify the location for the TSO
server.

Below is the JCL you should use. Please note the comments/information at the
beginning of the JCL. It is very important for TSO servers. The JCL as-is
is for VTAM servers.

```
//DALLOCAL JOB ONE,'DAL',MSGCLASS=X                              00000100
//************************************************************** 00000200
//*                                                              00000300
//* JOB: DALLOCAL                                                00000400
//*      THIS JOB WILL ALLOW CUSTOMIZATION OF THE TRANSLATE TABLES 00000500
//*      USED FOR ASCII TO EBCDIC AND HOST EBCDIC TO ASCII       00000600
//*      TRANSLATION TO ALLOW FOR NON-US CHARACTER SETS          00000700
```

```
//*                                                                00000800
//*      THIS JCL SHOULD BE CUSTOMIZED BY THE INSTALLATION         00000900
//*      BY SETTING THE LOCAL VARIABLE (LANG) TO THE LANGUAGE      00001000
//*      REQUIRED - REMOVE THE COMMENT FROM THE DESIRED LANGUAGE   00001100
//*      CARD:                                                     00001101
//*              *&LANG      SETC  'FRENCH'                         00001102
//*      (SEE NEXT PAGE).                                          00001103
//*                                                                00001200
//*      IF THIS CUSTOMIZATION IS PERFORMED, THE OUTPUT OF THIS    00001300
//*      JOB SHOULD BE USED AS THE VTAM SERVER LOAD MODULE.        00001400
//*                                                                00001401
//*      FOR TSO, THE ENTRY POINT NEEDS TO BE CHANGED TO REFERENCE 00001402
//*      'CL1HEAD' AND THE LOAD MODULE NAME MUST BE CHANGED TO     00001403
//*      'DALSVR' IN THE SYSLMOD AND INCLUDE SYSLIB STATEMENTS     00001404
//*      (SEE 00203100 BELOW).                                     00001404
//*                                                                00001500
//*****************************************************************  00001600
//*                                                                00001700
//ASM     EXEC PGM=IEV90,PARM='TEST,DECK,NOOBJECT,XREF,NOALOGIC'   00040005
//SYSLIB   DD DISP=SHR,DSN=SYS1.MACLIB                             00080005
//SYSUT1   DD DSN=&&SYSUT1,UNIT=VIO,SPACE=(1700,(1000,500))        00090005
//SYSUT2   DD DSN=&&SYSUT2,UNIT=VIO,SPACE=(1700,(1000,500))        00100005
//SYSUT3   DD DSN=&&SYSUT3,UNIT=VIO,SPACE=(1700,(1000,500))        00110005
//SYSPRINT  DD SYSOUT=*                                            00120005
//SYSPUNCH  DD DSN=&&DALLOCAL,                                     00160005
//            DISP=(NEW,PASS,DELETE),                              00160006
//            UNIT=SYSDA,                                          00160007
//            SPACE=(TRK,(5,1))                                    00160008
//SYSIN    DD *                                                    00170005
*************************************************************************
*         DAL MVS/VTAM CHARACTER TRANSLATE TABLES                      *
*         COPYRIGHT 1992, APPLE COMPUTER, INC.                         *
*************************************************************************
          TITLE 'DALLOCAL'
          LCLC  &LANG
*************************************************************************
*         SELECT ONE OF THE FOLLOWING LANGUAGES BY UNCOMMENTING        *
*         THE APPROPRIATE STATEMENT                                    *
*************************************************************************
*&LANG     SETC  'FRENCH'
*&LANG     SETC  'GERMAN'
*&LANG     SETC  'SWEDISH'
*&LANG     SETC  'DEFAULT'
UASC2EBC  EQU   *
          ENTRY UASC2EBC
          AIF   ('&LANG' EQ 'FRENCH').FRENCH
          AIF   ('&LANG' EQ 'GERMAN').GERMAN
          AIF   ('&LANG' EQ 'SWEDISH').SWEDISH
*
.DEFAULT  ANOP
*
*  ASCII TO EBCDIC TRANSLATION TABLE USA/CANADA 0037/1             *
*  PC TO HOST                                                      *
```

```
*
*   NOTE: THE USA TABLE IS IDENTICAL TO THE DEFAULT INTERNAL TABLE *
*   IN THE SERVER AND IS PROVIDED SHOULD OTHER CUSTOMIZATION        *
*   BE DESIRED.                                                     *
*
 DC XL1'00',XL1'01',XL1'02',XL1'03',XL1'37',XL1'2D',XL1'2E',XL1'2F'
 DC XL1'16',XL1'05',XL1'25',XL1'0B',XL1'0C',XL1'0D',XL1'0E',XL1'0F'
 DC XL1'10',XL1'11',XL1'12',XL1'13',XL1'3C',XL1'3D',XL1'32',XL1'26'
 DC XL1'18',XL1'19',XL1'3F',XL1'27',XL1'1C',XL1'1D',XL1'1E',XL1'1F'
 DC XL1'40',XL1'5A',XL1'7F',XL1'7B',XL1'5B',XL1'6C',XL1'50',XL1'7D'
 DC XL1'4D',XL1'5D',XL1'5C',XL1'4E',XL1'6B',XL1'60',XL1'4B',XL1'61'
 DC XL1'F0',XL1'F1',XL1'F2',XL1'F3',XL1'F4',XL1'F5',XL1'F6',XL1'F7'
 DC XL1'F8',XL1'F9',XL1'7A',XL1'5E',XL1'4C',XL1'7E',XL1'6E',XL1'6F'
 DC XL1'7C',XL1'C1',XL1'C2',XL1'C3',XL1'C4',XL1'C5',XL1'C6',XL1'C7'
 DC XL1'C8',XL1'C9',XL1'D1',XL1'D2',XL1'D3',XL1'D4',XL1'D5',XL1'D6'
 DC XL1'D7',XL1'D8',XL1'D9',XL1'E2',XL1'E3',XL1'E4',XL1'E5',XL1'E6'
 DC XL1'E7',XL1'E8',XL1'E9',XL1'BA',XL1'E0',XL1'BB',XL1'B0',XL1'6D'
 DC XL1'79',XL1'81',XL1'82',XL1'83',XL1'84',XL1'85',XL1'86',XL1'87'
 DC XL1'88',XL1'89',XL1'91',XL1'92',XL1'93',XL1'94',XL1'95',XL1'96'
 DC XL1'97',XL1'98',XL1'99',XL1'A2',XL1'A3',XL1'A4',XL1'A5',XL1'A6'
 DC XL1'A7',XL1'A8',XL1'A9',XL1'C0',XL1'4F',XL1'D0',XL1'A1',XL1'07'
 DC XL1'68',XL1'DC',XL1'51',XL1'42',XL1'43',XL1'44',XL1'47',XL1'48'
 DC XL1'52',XL1'53',XL1'54',XL1'57',XL1'56',XL1'58',XL1'63',XL1'67'
 DC XL1'71',XL1'9C',XL1'9E',XL1'CB',XL1'CC',XL1'CD',XL1'DB',XL1'DD'
 DC XL1'DF',XL1'EC',XL1'FC',XL1'70',XL1'B1',XL1'80',XL1'BF',XL1'04'
 DC XL1'45',XL1'55',XL1'CE',XL1'DE',XL1'49',XL1'69',XL1'9A',XL1'9B'
 DC XL1'AB',XL1'AF',XL1'5F',XL1'B8',XL1'B7',XL1'AA',XL1'8A',XL1'8B'
 DC XL1'20',XL1'21',XL1'22',XL1'23',XL1'24',XL1'65',XL1'62',XL1'64'
 DC XL1'B4',XL1'28',XL1'29',XL1'2A',XL1'2B',XL1'4A',XL1'B2',XL1'2C'
 DC XL1'0A',XL1'14',XL1'15',XL1'17',XL1'1A',XL1'1B',XL1'46',XL1'66'
 DC XL1'30',XL1'31',XL1'33',XL1'34',XL1'35',XL1'36',XL1'38',XL1'9F'
 DC XL1'8C',XL1'AC',XL1'72',XL1'73',XL1'74',XL1'08',XL1'75',XL1'76'
 DC XL1'77',XL1'39',XL1'3A',XL1'3B',XL1'3E',XL1'6A',XL1'78',XL1'41'
 DC XL1'EE',XL1'59',XL1'EB',XL1'ED',XL1'CF',XL1'EF',XL1'A0',XL1'8E'
 DC XL1'AE',XL1'FE',XL1'FB',XL1'FD',XL1'8D',XL1'AD',XL1'09',XL1'BE'
 DC XL1'BC',XL1'8F',XL1'06',XL1'B9',XL1'B6',XL1'B5',XL1'E1',XL1'9D'
 DC XL1'90',XL1'BD',XL1'B3',XL1'DA',XL1'FA',XL1'EA',XL1'CA',XL1'FF'
          AGO    .DEFAUL1
.FRENCH   ANOP
*
*   ASCII TO EBCDIC TRANSLATION TABLE FRANCE 00297/1                *
*   PC TO HOST                                                      *
*
 DC XL1'00',XL1'01',XL1'02',XL1'03',XL1'37',XL1'2D',XL1'2E',XL1'2F'
 DC XL1'16',XL1'05',XL1'25',XL1'0B',XL1'0C',XL1'0D',XL1'0E',XL1'0F'
 DC XL1'10',XL1'11',XL1'12',XL1'13',XL1'3C',XL1'3D',XL1'32',XL1'26'
 DC XL1'18',XL1'19',XL1'3F',XL1'27',XL1'1C',XL1'1D',XL1'1E',XL1'1F'
 DC XL1'40',XL1'4F',XL1'7F',XL1'B1',XL1'5B',XL1'6C',XL1'50',XL1'7D'
 DC XL1'4D',XL1'5D',XL1'5C',XL1'4E',XL1'6B',XL1'60',XL1'4B',XL1'61'
 DC XL1'F0',XL1'F1',XL1'F2',XL1'F3',XL1'F4',XL1'F5',XL1'F6',XL1'F7'
 DC XL1'F8',XL1'F9',XL1'7A',XL1'5E',XL1'4C',XL1'7E',XL1'6E',XL1'6F'
 DC XL1'44',XL1'C1',XL1'C2',XL1'C3',XL1'C4',XL1'C5',XL1'C6',XL1'C7'
 DC XL1'C8',XL1'C9',XL1'D1',XL1'D2',XL1'D3',XL1'D4',XL1'D5',XL1'D6'
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 DC XL1'D7',XL1'D8',XL1'D9',XL1'E2',XL1'E3',XL1'E4',XL1'E5',XL1'E6'
 DC XL1'E7',XL1'E8',XL1'E9',XL1'90',XL1'48',XL1'B5',XL1'5F',XL1'6D'
 DC XL1'A0',XL1'81',XL1'82',XL1'83',XL1'84',XL1'85',XL1'86',XL1'87'
 DC XL1'88',XL1'89',XL1'91',XL1'92',XL1'93',XL1'94',XL1'95',XL1'96'
 DC XL1'97',XL1'98',XL1'99',XL1'A2',XL1'A3',XL1'A4',XL1'A5',XL1'A6'
 DC XL1'A7',XL1'A8',XL1'A9',XL1'51',XL1'BB',XL1'54',XL1'BD',XL1'07'
 DC XL1'68',XL1'DC',XL1'C0',XL1'42',XL1'43',XL1'7C',XL1'47',XL1'E0'
 DC XL1'52',XL1'53',XL1'D0',XL1'57',XL1'56',XL1'58',XL1'63',XL1'67'
 DC XL1'71',XL1'9C',XL1'9E',XL1'CB',XL1'CC',XL1'CD',XL1'DB',XL1'6A'
 DC XL1'DF',XL1'EC',XL1'FC',XL1'70',XL1'7B',XL1'80',XL1'BF',XL1'04'
 DC XL1'45',XL1'55',XL1'CE',XL1'DE',XL1'49',XL1'69',XL1'9A',XL1'9B'
 DC XL1'AB',XL1'AF',XL1'BA',XL1'B8',XL1'B7',XL1'AA',XL1'8A',XL1'8B'
 DC XL1'20',XL1'21',XL1'22',XL1'23',XL1'24',XL1'65',XL1'62',XL1'64'
 DC XL1'B4',XL1'28',XL1'29',XL1'2A',XL1'2B',XL1'B0',XL1'B2',XL1'2C'
 DC XL1'0A',XL1'14',XL1'15',XL1'17',XL1'1A',XL1'1B',XL1'46',XL1'66'
 DC XL1'30',XL1'31',XL1'33',XL1'34',XL1'35',XL1'36',XL1'38',XL1'9F'
 DC XL1'8C',XL1'AC',XL1'72',XL1'73',XL1'74',XL1'08',XL1'75',XL1'76'
 DC XL1'77',XL1'39',XL1'3A',XL1'3B',XL1'3E',XL1'DD',XL1'78',XL1'41'
 DC XL1'EE',XL1'59',XL1'EB',XL1'ED',XL1'CF',XL1'EF',XL1'79',XL1'8E'
 DC XL1'AE',XL1'FE',XL1'FB',XL1'FD',XL1'8D',XL1'AD',XL1'09',XL1'BE'
 DC XL1'BC',XL1'8F',XL1'06',XL1'B9',XL1'B6',XL1'5A',XL1'E1',XL1'9D'
 DC XL1'4A',XL1'A1',XL1'B3',XL1'DA',XL1'FA',XL1'EA',XL1'CA',XL1'FF'
           AGO    .FRENCH1
.GERMAN    ANOP
*
*   ASCII TO EBCDIC TRANSLATION TABLE GERMANY/AUSTRIA 00273/1     *
*   PC TO HOST                                                    *
*
 DC XL1'00',XL1'01',XL1'02',XL1'03',XL1'37',XL1'2D',XL1'2E',XL1'2F'
 DC XL1'16',XL1'05',XL1'25',XL1'0B',XL1'0C',XL1'0D',XL1'0E',XL1'0F'
 DC XL1'10',XL1'11',XL1'12',XL1'13',XL1'3C',XL1'3D',XL1'32',XL1'26'
 DC XL1'18',XL1'19',XL1'3F',XL1'27',XL1'1C',XL1'1D',XL1'1E',XL1'1F'
 DC XL1'40',XL1'4F',XL1'7F',XL1'7B',XL1'5B',XL1'6C',XL1'50',XL1'7D'
 DC XL1'4D',XL1'5D',XL1'5C',XL1'4E',XL1'6B',XL1'60',XL1'4B',XL1'61'
 DC XL1'F0',XL1'F1',XL1'F2',XL1'F3',XL1'F4',XL1'F5',XL1'F6',XL1'F7'
 DC XL1'F8',XL1'F9',XL1'7A',XL1'5E',XL1'4C',XL1'7E',XL1'6E',XL1'6F'
 DC XL1'B5',XL1'C1',XL1'C2',XL1'C3',XL1'C4',XL1'C5',XL1'C6',XL1'C7'
 DC XL1'C8',XL1'C9',XL1'D1',XL1'D2',XL1'D3',XL1'D4',XL1'D5',XL1'D6'
 DC XL1'D7',XL1'D8',XL1'D9',XL1'E2',XL1'E3',XL1'E4',XL1'E5',XL1'E6'
 DC XL1'E7',XL1'E8',XL1'E9',XL1'63',XL1'EC',XL1'FC',XL1'5F',XL1'6D'
 DC XL1'79',XL1'81',XL1'82',XL1'83',XL1'84',XL1'85',XL1'86',XL1'87'
 DC XL1'88',XL1'89',XL1'91',XL1'92',XL1'93',XL1'94',XL1'95',XL1'96'
 DC XL1'97',XL1'98',XL1'99',XL1'A2',XL1'A3',XL1'A4',XL1'A5',XL1'A6'
 DC XL1'A7',XL1'A8',XL1'A9',XL1'43',XL1'BB',XL1'DC',XL1'59',XL1'07'
 DC XL1'68',XL1'D0',XL1'51',XL1'42',XL1'C0',XL1'44',XL1'47',XL1'48'
 DC XL1'52',XL1'53',XL1'54',XL1'57',XL1'56',XL1'58',XL1'4A',XL1'67'
 DC XL1'71',XL1'9C',XL1'9E',XL1'CB',XL1'6A',XL1'CD',XL1'DB',XL1'DD'
 DC XL1'DF',XL1'E0',XL1'5A',XL1'70',XL1'B1',XL1'80',XL1'BF',XL1'04'
 DC XL1'45',XL1'55',XL1'CE',XL1'DE',XL1'49',XL1'69',XL1'9A',XL1'9B'
 DC XL1'AB',XL1'AF',XL1'BA',XL1'B8',XL1'B7',XL1'AA',XL1'8A',XL1'8B'
 DC XL1'20',XL1'21',XL1'22',XL1'23',XL1'24',XL1'65',XL1'62',XL1'64'
 DC XL1'B4',XL1'28',XL1'29',XL1'2A',XL1'2B',XL1'B0',XL1'B2',XL1'2C'
 DC XL1'0A',XL1'14',XL1'15',XL1'17',XL1'1A',XL1'1B',XL1'46',XL1'66'
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```
              DC    XL1'30',XL1'31',XL1'33',XL1'34',XL1'35',XL1'36',XL1'38',XL1'9F'
              DC    XL1'8C',XL1'AC',XL1'72',XL1'73',XL1'74',XL1'08',XL1'75',XL1'76'
              DC    XL1'77',XL1'39',XL1'3A',XL1'3B',XL1'3E',XL1'CC',XL1'78',XL1'41'
              DC    XL1'EE',XL1'A1',XL1'EB',XL1'ED',XL1'CF',XL1'EF',XL1'A0',XL1'8E'
              DC    XL1'AE',XL1'FE',XL1'FB',XL1'FD',XL1'8D',XL1'AD',XL1'09',XL1'BE'
              DC    XL1'BC',XL1'8F',XL1'06',XL1'B9',XL1'B6',XL1'7C',XL1'E1',XL1'9D'
              DC    XL1'90',XL1'BD',XL1'B3',XL1'DA',XL1'FA',XL1'EA',XL1'CA',XL1'FF'
                    AGO    .GERMAN1
.SWEDISH      ANOP
*
*   ASCII TO EBCDIC TRANSLATION TABLE FINLAND/SWEDEN 00278/1          *
*   PC TO HOST                                                        *
*
              DC    XL1'00',XL1'01',XL1'02',XL1'03',XL1'37',XL1'2D',XL1'2E',XL1'2F'
              DC    XL1'16',XL1'05',XL1'25',XL1'0B',XL1'0C',XL1'0D',XL1'0E',XL1'0F'
              DC    XL1'10',XL1'11',XL1'12',XL1'13',XL1'3C',XL1'3D',XL1'32',XL1'26'
              DC    XL1'18',XL1'19',XL1'3F',XL1'27',XL1'1C',XL1'1D',XL1'1E',XL1'1F'
              DC    XL1'40',XL1'4F',XL1'7F',XL1'63',XL1'67',XL1'6C',XL1'50',XL1'7D'
              DC    XL1'4D',XL1'5D',XL1'5C',XL1'4E',XL1'6B',XL1'60',XL1'4B',XL1'61'
              DC    XL1'F0',XL1'F1',XL1'F2',XL1'F3',XL1'F4',XL1'F5',XL1'F6',XL1'F7'
              DC    XL1'F8',XL1'F9',XL1'7A',XL1'5E',XL1'4C',XL1'7E',XL1'6E',XL1'6F'
              DC    XL1'EC',XL1'C1',XL1'C2',XL1'C3',XL1'C4',XL1'C5',XL1'C6',XL1'C7'
              DC    XL1'C8',XL1'C9',XL1'D1',XL1'D2',XL1'D3',XL1'D4',XL1'D5',XL1'D6'
              DC    XL1'D7',XL1'D8',XL1'D9',XL1'E2',XL1'E3',XL1'E4',XL1'E5',XL1'E6'
              DC    XL1'E7',XL1'E8',XL1'E9',XL1'B5',XL1'71',XL1'9F',XL1'5F',XL1'6D'
              DC    XL1'51',XL1'81',XL1'82',XL1'83',XL1'84',XL1'85',XL1'86',XL1'87'
              DC    XL1'88',XL1'89',XL1'91',XL1'92',XL1'93',XL1'94',XL1'95',XL1'96'
              DC    XL1'97',XL1'98',XL1'99',XL1'A2',XL1'A3',XL1'A4',XL1'A5',XL1'A6'
              DC    XL1'A7',XL1'A8',XL1'A9',XL1'43',XL1'BB',XL1'47',XL1'DC',XL1'07'
              DC    XL1'68',XL1'A1',XL1'79',XL1'42',XL1'C0',XL1'44',XL1'D0',XL1'48'
              DC    XL1'52',XL1'53',XL1'54',XL1'57',XL1'56',XL1'58',XL1'7B',XL1'5B'
              DC    XL1'E0',XL1'9C',XL1'9E',XL1'CB',XL1'6A',XL1'CD',XL1'DB',XL1'DD'
              DC    XL1'DF',XL1'7C',XL1'FC',XL1'70',XL1'B1',XL1'80',XL1'BF',XL1'04'
              DC    XL1'45',XL1'55',XL1'CE',XL1'DE',XL1'49',XL1'69',XL1'9A',XL1'9B'
              DC    XL1'AB',XL1'AF',XL1'BA',XL1'B8',XL1'B7',XL1'AA',XL1'8A',XL1'8B'
              DC    XL1'20',XL1'21',XL1'22',XL1'23',XL1'24',XL1'65',XL1'62',XL1'64'
              DC    XL1'B4',XL1'28',XL1'29',XL1'2A',XL1'2B',XL1'B0',XL1'B2',XL1'2C'
              DC    XL1'0A',XL1'14',XL1'15',XL1'17',XL1'1A',XL1'1B',XL1'46',XL1'66'
              DC    XL1'30',XL1'31',XL1'33',XL1'34',XL1'35',XL1'36',XL1'38',XL1'5A'
              DC    XL1'8C',XL1'AC',XL1'72',XL1'73',XL1'74',XL1'08',XL1'75',XL1'76'
              DC    XL1'77',XL1'39',XL1'3A',XL1'3B',XL1'3E',XL1'CC',XL1'78',XL1'41'
              DC    XL1'EE',XL1'59',XL1'EB',XL1'ED',XL1'CF',XL1'EF',XL1'A0',XL1'8E'
              DC    XL1'AE',XL1'FE',XL1'FB',XL1'FD',XL1'8D',XL1'AD',XL1'09',XL1'BE'
              DC    XL1'BC',XL1'8F',XL1'06',XL1'B9',XL1'B6',XL1'4A',XL1'E1',XL1'9D'
              DC    XL1'90',XL1'BD',XL1'B3',XL1'DA',XL1'FA',XL1'EA',XL1'CA',XL1'FF'
                    AGO    .SWEDIS1
.DEFAUL1      ANOP
*
UEBC2ASC      EQU    *
                    ENTRY UEBC2ASC
*
*   EBCDIC TO ASCII TRANSLATION TABLE USA/CANADA 0037/1              *
*   HOST TO PC                                                        *
```

```
*
*   NOTE: THE USA TABLE IS IDENTICAL TO THE DEFAULT INTERNAL TABLE *
*   IN THE SERVER AND IS PROVIDED SHOULD OTHER CUSTOMIZATION        *
*   BE DESIRED.                                                     *
*
 DC XL1'00',XL1'01',XL1'02',XL1'03',XL1'9F',XL1'09',XL1'F2',XL1'7F'
 DC XL1'D5',XL1'EE',XL1'C0',XL1'0B',XL1'0C',XL1'0D',XL1'0E',XL1'0F'
 DC XL1'10',XL1'11',XL1'12',XL1'13',XL1'C1',XL1'C2',XL1'08',XL1'C3'
 DC XL1'18',XL1'19',XL1'C4',XL1'C5',XL1'1C',XL1'1D',XL1'1E',XL1'1F'
 DC XL1'B0',XL1'B1',XL1'B2',XL1'B3',XL1'B4',XL1'0A',XL1'17',XL1'1B'
 DC XL1'B9',XL1'BA',XL1'BB',XL1'BC',XL1'BF',XL1'05',XL1'06',XL1'07'
 DC XL1'C8',XL1'C9',XL1'16',XL1'CA',XL1'CB',XL1'CC',XL1'CD',XL1'04'
 DC XL1'CE',XL1'D9',XL1'DA',XL1'DB',XL1'14',XL1'15',XL1'DC',XL1'1A'
 DC XL1'20',XL1'DF',XL1'83',XL1'84',XL1'85',XL1'A0',XL1'C6',XL1'86'
 DC XL1'87',XL1'A4',XL1'BD',XL1'2E',XL1'3C',XL1'28',XL1'2B',XL1'7C'
 DC XL1'26',XL1'82',XL1'88',XL1'89',XL1'8A',XL1'A1',XL1'8C',XL1'8B'
 DC XL1'8D',XL1'E1',XL1'21',XL1'24',XL1'2A',XL1'29',XL1'3B',XL1'AA'
 DC XL1'2D',XL1'2F',XL1'B6',XL1'8E',XL1'B7',XL1'B5',XL1'C7',XL1'8F'
 DC XL1'80',XL1'A5',XL1'DD',XL1'2C',XL1'25',XL1'5F',XL1'3E',XL1'3F'
 DC XL1'9B',XL1'90',XL1'D2',XL1'D3',XL1'D4',XL1'D6',XL1'D7',XL1'D8'
 DC XL1'DE',XL1'60',XL1'3A',XL1'23',XL1'40',XL1'27',XL1'3D',XL1'22'
 DC XL1'9D',XL1'61',XL1'62',XL1'63',XL1'64',XL1'65',XL1'66',XL1'67'
 DC XL1'68',XL1'69',XL1'AE',XL1'AF',XL1'D0',XL1'EC',XL1'E7',XL1'F1'
 DC XL1'F8',XL1'6A',XL1'6B',XL1'6C',XL1'6D',XL1'6E',XL1'6F',XL1'70'
 DC XL1'71',XL1'72',XL1'A6',XL1'A7',XL1'91',XL1'F7',XL1'92',XL1'CF'
 DC XL1'E6',XL1'7E',XL1'73',XL1'74',XL1'75',XL1'76',XL1'77',XL1'78'
 DC XL1'79',XL1'7A',XL1'AD',XL1'A8',XL1'D1',XL1'ED',XL1'E8',XL1'A9'
 DC XL1'5E',XL1'9C',XL1'BE',XL1'FA',XL1'B8',XL1'F5',XL1'F4',XL1'AC'
 DC XL1'AB',XL1'F3',XL1'5B',XL1'5D',XL1'F0',XL1'F9',XL1'EF',XL1'9E'
 DC XL1'7B',XL1'41',XL1'42',XL1'43',XL1'44',XL1'45',XL1'46',XL1'47'
 DC XL1'48',XL1'49',XL1'FE',XL1'93',XL1'94',XL1'95',XL1'A2',XL1'E4'
 DC XL1'7D',XL1'4A',XL1'4B',XL1'4C',XL1'4D',XL1'4E',XL1'4F',XL1'50'
 DC XL1'51',XL1'52',XL1'FB',XL1'96',XL1'81',XL1'97',XL1'A3',XL1'98'
 DC XL1'5C',XL1'F6',XL1'53',XL1'54',XL1'55',XL1'56',XL1'57',XL1'58'
 DC XL1'59',XL1'5A',XL1'FD',XL1'E2',XL1'99',XL1'E3',XL1'E0',XL1'E5'
 DC XL1'30',XL1'31',XL1'32',XL1'33',XL1'34',XL1'35',XL1'36',XL1'37'
 DC XL1'38',XL1'39',XL1'FC',XL1'EA',XL1'9A',XL1'EB',XL1'E9',XL1'FF'
*
         AGO   .FINISH
.FRENCH1  ANOP
*
UEBC2ASC  EQU   *
          ENTRY UEBC2ASC
*
*   EBCDIC TO ASCII TRANSLATION TABLE FRANCE 00297/1              *
*   HOST TO PC                                                    *
*
 DC XL1'00',XL1'01',XL1'02',XL1'03',XL1'9F',XL1'09',XL1'F2',XL1'7F'
 DC XL1'D5',XL1'EE',XL1'C0',XL1'0B',XL1'0C',XL1'0D',XL1'0E',XL1'0F'
 DC XL1'10',XL1'11',XL1'12',XL1'13',XL1'C1',XL1'C2',XL1'08',XL1'C3'
 DC XL1'18',XL1'19',XL1'C4',XL1'C5',XL1'1C',XL1'1D',XL1'1E',XL1'1F'
 DC XL1'B0',XL1'B1',XL1'B2',XL1'B3',XL1'B4',XL1'0A',XL1'17',XL1'1B'
 DC XL1'B9',XL1'BA',XL1'BB',XL1'BC',XL1'BF',XL1'05',XL1'06',XL1'07'
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 DC XL1'C8',XL1'C9',XL1'16',XL1'CA',XL1'CB',XL1'CC',XL1'CD',XL1'04'
 DC XL1'CE',XL1'D9',XL1'DA',XL1'DB',XL1'14',XL1'15',XL1'DC',XL1'1A'
 DC XL1'20',XL1'DF',XL1'83',XL1'84',XL1'40',XL1'A0',XL1'C6',XL1'86'
 DC XL1'5C',XL1'A4',XL1'F8',XL1'2E',XL1'3C',XL1'28',XL1'2B',XL1'21'
 DC XL1'26',XL1'7B',XL1'88',XL1'89',XL1'7D',XL1'A1',XL1'8C',XL1'8B'
 DC XL1'8D',XL1'E1',XL1'F5',XL1'24',XL1'2A',XL1'29',XL1'3B',XL1'5E'
 DC XL1'2D',XL1'2F',XL1'B6',XL1'8E',XL1'B7',XL1'B5',XL1'C7',XL1'8F'
 DC XL1'80',XL1'A5',XL1'97',XL1'2C',XL1'25',XL1'5F',XL1'3E',XL1'3F'
 DC XL1'9B',XL1'90',XL1'D2',XL1'D3',XL1'D4',XL1'D6',XL1'D7',XL1'D8'
 DC XL1'DE',XL1'E6',XL1'3A',XL1'9C',XL1'85',XL1'27',XL1'3D',XL1'22'
 DC XL1'9D',XL1'61',XL1'62',XL1'63',XL1'64',XL1'65',XL1'66',XL1'67'
 DC XL1'68',XL1'69',XL1'AE',XL1'AF',XL1'D0',XL1'EC',XL1'E7',XL1'F1'
 DC XL1'5B',XL1'6A',XL1'6B',XL1'6C',XL1'6D',XL1'6E',XL1'6F',XL1'70'
 DC XL1'71',XL1'72',XL1'A6',XL1'A7',XL1'91',XL1'F7',XL1'92',XL1'CF'
 DC XL1'60',XL1'F9',XL1'73',XL1'74',XL1'75',XL1'76',XL1'77',XL1'78'
 DC XL1'79',XL1'7A',XL1'AD',XL1'A8',XL1'D1',XL1'ED',XL1'E8',XL1'A9'
 DC XL1'BD',XL1'23',XL1'BE',XL1'FA',XL1'B8',XL1'5D',XL1'F4',XL1'AC'
 DC XL1'AB',XL1'F3',XL1'AA',XL1'7C',XL1'F0',XL1'7E',XL1'EF',XL1'9E'
 DC XL1'82',XL1'41',XL1'42',XL1'43',XL1'44',XL1'45',XL1'46',XL1'47'
 DC XL1'48',XL1'49',XL1'FE',XL1'93',XL1'94',XL1'95',XL1'A2',XL1'E4'
 DC XL1'8A',XL1'4A',XL1'4B',XL1'4C',XL1'4D',XL1'4E',XL1'4F',XL1'50'
 DC XL1'51',XL1'52',XL1'FB',XL1'96',XL1'81',XL1'DD',XL1'A3',XL1'98'
 DC XL1'87',XL1'F6',XL1'53',XL1'54',XL1'55',XL1'56',XL1'57',XL1'58'
 DC XL1'59',XL1'5A',XL1'FD',XL1'E2',XL1'99',XL1'E3',XL1'E0',XL1'E5'
 DC XL1'30',XL1'31',XL1'32',XL1'33',XL1'34',XL1'35',XL1'36',XL1'37'
 DC XL1'38',XL1'39',XL1'FC',XL1'EA',XL1'9A',XL1'EB',XL1'E9',XL1'FF'
*
         AGO   .FINISH
.GERMAN1   ANOP
*
UEBC2ASC   EQU   *
           ENTRY UEBC2ASC
*
*  EBCDIC TO ASCII TRANSLATION TABLE GERMANY/AUSTRIA 00273/1       *
*  HOST TO PC                                                      *
*
 DC XL1'00',XL1'01',XL1'02',XL1'03',XL1'9F',XL1'09',XL1'F2',XL1'7F'
 DC XL1'D5',XL1'EE',XL1'C0',XL1'0B',XL1'0C',XL1'0D',XL1'0E',XL1'0F'
 DC XL1'10',XL1'11',XL1'12',XL1'13',XL1'C1',XL1'C2',XL1'08',XL1'C3'
 DC XL1'18',XL1'19',XL1'C4',XL1'C5',XL1'1C',XL1'1D',XL1'1E',XL1'1F'
 DC XL1'B0',XL1'B1',XL1'B2',XL1'B3',XL1'B4',XL1'0A',XL1'17',XL1'1B'
 DC XL1'B9',XL1'BA',XL1'BB',XL1'BC',XL1'BF',XL1'05',XL1'06',XL1'07'
 DC XL1'C8',XL1'C9',XL1'16',XL1'CA',XL1'CB',XL1'CC',XL1'CD',XL1'04'
 DC XL1'CE',XL1'D9',XL1'DA',XL1'DB',XL1'14',XL1'15',XL1'DC',XL1'1A'
 DC XL1'20',XL1'DF',XL1'83',XL1'7B',XL1'85',XL1'A0',XL1'C6',XL1'86'
 DC XL1'87',XL1'A4',XL1'8E',XL1'2E',XL1'3C',XL1'28',XL1'2B',XL1'21'
 DC XL1'26',XL1'82',XL1'88',XL1'89',XL1'8A',XL1'A1',XL1'8C',XL1'8B'
 DC XL1'8D',XL1'7E',XL1'9A',XL1'24',XL1'2A',XL1'29',XL1'3B',XL1'5E'
 DC XL1'2D',XL1'2F',XL1'B6',XL1'5B',XL1'B7',XL1'B5',XL1'C7',XL1'8F'
 DC XL1'80',XL1'A5',XL1'94',XL1'2C',XL1'25',XL1'5F',XL1'3E',XL1'3F'
 DC XL1'9B',XL1'90',XL1'D2',XL1'D3',XL1'D4',XL1'D6',XL1'D7',XL1'D8'
 DC XL1'DE',XL1'60',XL1'3A',XL1'23',XL1'F5',XL1'27',XL1'3D',XL1'22'
 DC XL1'9D',XL1'61',XL1'62',XL1'63',XL1'64',XL1'65',XL1'66',XL1'67'
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         DC XL1'68',XL1'69',XL1'AE',XL1'AF',XL1'D0',XL1'EC',XL1'E7',XL1'F1'
         DC XL1'F8',XL1'6A',XL1'6B',XL1'6C',XL1'6D',XL1'6E',XL1'6F',XL1'70'
         DC XL1'71',XL1'72',XL1'A6',XL1'A7',XL1'91',XL1'F7',XL1'92',XL1'CF'
         DC XL1'E6',XL1'E1',XL1'73',XL1'74',XL1'75',XL1'76',XL1'77',XL1'78'
         DC XL1'79',XL1'7A',XL1'AD',XL1'A8',XL1'D1',XL1'ED',XL1'E8',XL1'A9'
         DC XL1'BD',XL1'9C',XL1'BE',XL1'FA',XL1'B8',XL1'40',XL1'F4',XL1'AC'
         DC XL1'AB',XL1'F3',XL1'AA',XL1'7C',XL1'F0',XL1'F9',XL1'EF',XL1'9E'
         DC XL1'84',XL1'41',XL1'42',XL1'43',XL1'44',XL1'45',XL1'46',XL1'47'
         DC XL1'48',XL1'49',XL1'FE',XL1'93',XL1'DD',XL1'95',XL1'A2',XL1'E4'
         DC XL1'81',XL1'4A',XL1'4B',XL1'4C',XL1'4D',XL1'4E',XL1'4F',XL1'50'
         DC XL1'51',XL1'52',XL1'FB',XL1'96',XL1'7D',XL1'97',XL1'A3',XL1'98'
         DC XL1'99',XL1'F6',XL1'53',XL1'54',XL1'55',XL1'56',XL1'57',XL1'58'
         DC XL1'59',XL1'5A',XL1'FD',XL1'E2',XL1'5C',XL1'E3',XL1'E0',XL1'E5'
         DC XL1'30',XL1'31',XL1'32',XL1'33',XL1'34',XL1'35',XL1'36',XL1'37'
         DC XL1'38',XL1'39',XL1'FC',XL1'EA',XL1'5D',XL1'EB',XL1'E9',XL1'FF'
*
         AGO   .FINISH
.SWEDIS1  ANOP
*
UEBC2ASC  EQU   *
          ENTRY UEBC2ASC
*
*   EBCDIC TO ASCII TRANSLATION TABLE FINLAND/SWEDEN 00278/1       *
*   HOST TO PC                                                     *
*
         DC XL1'00',XL1'01',XL1'02',XL1'03',XL1'9F',XL1'09',XL1'F2',XL1'7F'
         DC XL1'D5',XL1'EE',XL1'C0',XL1'0B',XL1'0C',XL1'0D',XL1'0E',XL1'0F'
         DC XL1'10',XL1'11',XL1'12',XL1'13',XL1'C1',XL1'C2',XL1'08',XL1'C3'
         DC XL1'18',XL1'19',XL1'C4',XL1'C5',XL1'1C',XL1'1D',XL1'1E',XL1'1F'
         DC XL1'B0',XL1'B1',XL1'B2',XL1'B3',XL1'B4',XL1'0A',XL1'17',XL1'1B'
         DC XL1'B9',XL1'BA',XL1'BB',XL1'BC',XL1'BF',XL1'05',XL1'06',XL1'07'
         DC XL1'C8',XL1'C9',XL1'16',XL1'CA',XL1'CB',XL1'CC',XL1'CD',XL1'04'
         DC XL1'CE',XL1'D9',XL1'DA',XL1'DB',XL1'14',XL1'15',XL1'DC',XL1'1A'
         DC XL1'20',XL1'DF',XL1'83',XL1'7B',XL1'85',XL1'A0',XL1'C6',XL1'7D'
         DC XL1'87',XL1'A4',XL1'F5',XL1'2E',XL1'3C',XL1'28',XL1'2B',XL1'21'
         DC XL1'26',XL1'60',XL1'88',XL1'89',XL1'8A',XL1'A1',XL1'8C',XL1'8B'
         DC XL1'8D',XL1'E1',XL1'CF',XL1'8F',XL1'2A',XL1'29',XL1'3B',XL1'5E'
         DC XL1'2D',XL1'2F',XL1'B6',XL1'23',XL1'B7',XL1'B5',XL1'C7',XL1'24'
         DC XL1'80',XL1'A5',XL1'94',XL1'2C',XL1'25',XL1'5F',XL1'3E',XL1'3F'
         DC XL1'9B',XL1'5C',XL1'D2',XL1'D3',XL1'D4',XL1'D6',XL1'D7',XL1'D8'
         DC XL1'DE',XL1'82',XL1'3A',XL1'8E',XL1'99',XL1'27',XL1'3D',XL1'22'
         DC XL1'9D',XL1'61',XL1'62',XL1'63',XL1'64',XL1'65',XL1'66',XL1'67'
         DC XL1'68',XL1'69',XL1'AE',XL1'AF',XL1'D0',XL1'EC',XL1'E7',XL1'F1'
         DC XL1'F8',XL1'6A',XL1'6B',XL1'6C',XL1'6D',XL1'6E',XL1'6F',XL1'70'
         DC XL1'71',XL1'72',XL1'A6',XL1'A7',XL1'91',XL1'F7',XL1'92',XL1'5D'
         DC XL1'E6',XL1'81',XL1'73',XL1'74',XL1'75',XL1'76',XL1'77',XL1'78'
         DC XL1'79',XL1'7A',XL1'AD',XL1'A8',XL1'D1',XL1'ED',XL1'E8',XL1'A9'
         DC XL1'BD',XL1'9C',XL1'BE',XL1'FA',XL1'B8',XL1'5B',XL1'F4',XL1'AC'
         DC XL1'AB',XL1'F3',XL1'AA',XL1'7C',XL1'F0',XL1'F9',XL1'EF',XL1'9E'
         DC XL1'84',XL1'41',XL1'42',XL1'43',XL1'44',XL1'45',XL1'46',XL1'47'
         DC XL1'48',XL1'49',XL1'FE',XL1'93',XL1'DD',XL1'95',XL1'A2',XL1'E4'
         DC XL1'86',XL1'4A',XL1'4B',XL1'4C',XL1'4D',XL1'4E',XL1'4F',XL1'50'
         DC XL1'51',XL1'52',XL1'FB',XL1'96',XL1'7E',XL1'97',XL1'A3',XL1'98'
```

```
 DC XL1'90',XL1'F6',XL1'53',XL1'54',XL1'55',XL1'56',XL1'57',XL1'58'
 DC XL1'59',XL1'5A',XL1'FD',XL1'E2',XL1'40',XL1'E3',XL1'E0',XL1'E5'
 DC XL1'30',XL1'31',XL1'32',XL1'33',XL1'34',XL1'35',XL1'36',XL1'37'
 DC XL1'38',XL1'39',XL1'FC',XL1'EA',XL1'9A',XL1'EB',XL1'E9',XL1'FF'
*
.FINISH  ANOP
         END
/*                                                              00202000
//*                                                             00202200
//LINK    EXEC PGM=LINKEDIT,PARM='LET,TERM',COND=(4,LT)         00202300
//SYSLIB   DD DSN=DAL.LINKLIB,DISP=SHR                          00202400
//OBJECT   DD DSN=&&DALLOCAL,DISP=(OLD,DELETE,DELETE)           00202500
//SYSUT1   DD UNIT=VIO,SPACE=(TRK,(15,15))                      00202600
//SYSPRINT DD SYSOUT=*                                          00202700
//SYSTERM  DD SYSOUT=*                                          00202800
//SYSERR   DD SYSOUT=*                                          00202900
//SYSUDUMP DD SYSOUT=*                                          00203000
//SYSLMOD  DD DISP=SHR,DSN=DAL.LINKLIB(DALSERVE)                00203100
//SYSLIN   DD  *                                                00203200
  ENTRY   STARTUP                                               00203300
  INCLUDE SYSLIB(DALSERVE)                                      00203400
  INCLUDE OBJECT                                                00203500
  SETCODE AC(1)                                                 00203600
/*                                                              00203700
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Keywords: <None>

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