



Tech Info Library

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

Revised: 2/16/93
Security: Everyone

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

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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      .DEFAULT1
*
* .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'

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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'
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'

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AGO .FRENCH1

.GERMAN ANOP

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* ASCII TO EBCDIC TRANSLATION TABLE GERMANY/AUSTRIA 00273/1

*

* PC TO HOST

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*

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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'

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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'
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'

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AGO .GERMAN1

.SWEDISH ANOP

*

* ASCII TO EBCDIC TRANSLATION TABLE FINLAND/SWEDEN 00278/1

* PC TO HOST

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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'

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AGO .SWEDIS1

.DEFAULT ANOP


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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',XL1'40',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'

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AGO .FINISH

.GERMAN1 ANOP

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UEBC2ASC EQU *

ENTRY UEBC2ASC

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* EBCDIC TO ASCII TRANSLATION TABLE GERMANY/AUSTRIA 00273/1

*

* HOST TO PC

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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'

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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'
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'

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AGO .FINISH

.SWEDIS1 ANOP

*

UEBC2ASC EQU *

ENTRY UEBC2ASC

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* EBCDIC TO ASCII TRANSLATION TABLE FINLAND/SWEDEN 00278/1

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* HOST TO PC

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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'

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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

/*
//*
//LINK EXEC PGM=LINKEDIT,PARM='LET,TERM',COND=(4,LT)
//SYSLIB DD DSN=DAL.LINKLIB,DISP=SHR
//OBJECT DD DSN=&&DALLOCAL,DISP=(OLD,DELETE,DELETE)
//SYSUT1 DD UNIT=VIO,SPACE=(TRK,(15,15))
//SYSPRINT DD SYSOUT=*
//SYSTEM DD SYSOUT=*
//SYSERR DD SYSOUT=*
//SYSUDUMP DD SYSOUT=*
//SYSLMOD DD DISP=SHR,DSN=DAL.LINKLIB(DALSERVE)
//SYSLIN DD *
      ENTRY STARTUP
      INCLUDE SYSLIB(DALSERVE)
      INCLUDE OBJECT
      SETCODE AC(1)
/*
```

00202000
00202200
00202300
00202400
00202500
00202600
00202700
00202800
00202900
00203000
00203100
00203200
00203300
00203400
00203500
00203600
00203700

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