

Code page 850

Code page 850 (CCSID 850) (also known as CP 850, IBM 00850,^[2] OEM 850,^[3] DOS Latin 1^[4]) is a code page used under DOS and Psion's EPOC16 operating systems in Western Europe.^[5] Depending on the country setting and system configuration, code page 850 is the primary code page and default OEM code page in many countries, including various English-speaking locales (e.g. in the United Kingdom, Ireland, and Canada), whilst other English-speaking locales (like the United States) default to use the hardware code page 437.^[6]

Code page 850 differs from code page 437 in that many of the box-drawing characters, Greek letters, and various symbols were replaced with additional Latin letters with diacritics, thus greatly improving support for Western European languages (all characters from ISO 8859-1 are included). At the same time, the changes frequently caused display glitches with programs that made use of the box-drawing characters to display a GUI-like surface in text mode.

In 1998, code page 858 was derived from this code page by changing code point 213 (D5_{hex}) from a dotless i <i> to the euro sign <€>.^[7] Despite this, IBM's PC DOS 2000, released in 1998, changed their definition of code page 850 to what they called *modified code page 850* now including the euro sign at code point 213 instead of adding support for the new code page 858.^{[nb 1][8][9][10]}

Systems largely replaced code page 850 with Windows-1252 which contains all same letters, and later with Unicode.^[nb 2]

Contents

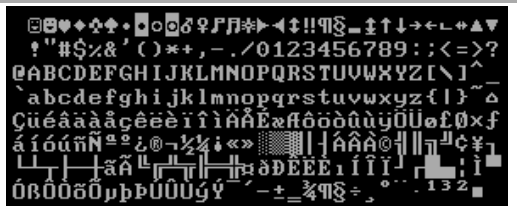
Character set

See also

Notes

References

Code page 850



Code page 850 character set with 9×14 glyphs, as usually rendered by Video Graphics Array (VGA)

MIME / IANA	IBM850
Alias(es)	cp850, 850, csPC850Multilingual, ^[1] DOS Latin 1, OEM 850
Language(s)	English, various others
Classification	Extended ASCII, OEM code page
Extends	US-ASCII
Based on	OEM-US
Transforms / Encodes	ISO/IEC 8859-1 (reordered)
Other related encoding(s)	Code page 858 (PC DOS 2000's "modified code page 850"), code page 437

Character set

Each character appears with its equivalent [Unicode](#) code-point. Only the second half of the table (code points 128–255) is shown, the first half (code points 0–127) being the same as [code page 437](#).

Code page 850 ^{[3][11][12][13][14]}																
	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
8x	Ç	ü	é	â	ä	à	å	ç	ê	ë	è	ï	î	ì	Ä	Å
9x	É	æ	Æ	ô	ö	ò	û	ù	ÿ	Ö	Ü	ø	£	Ø	×	f
Ax	á	í	ó	ú	ñ	Ñ	ª	º	¿	®	¬	½	¼	¡	«	»
Bx	⌘	⌘	⌘	┐	┐	Á	Â	Ã	©	⌘	⌘	⌘	⌘	¢	¥	⌘
Cx	Ł	⌘	⌘	┐	—	┐	ã	Ã	ℒ	ℒ	ℒ	ℒ	ℒ	=	ℒ	⌘
Dx	ð	Ð	Ê	Ë	È	ı	Í	Î	Ï	⌘	⌘	■	■	ı	Ì	■
Ex	Ó	β	Ô	Ò	õ	Õ	μ	þ	Ɔ	Ú	Û	Ù	ý	Ý	—	´
Fx	SHY	±	=	¾	¶	§	÷	¸	°	¨	·	¹	³	²	■	NBSP

☐ Differences from code page 437

See also

- Western Latin character sets (computing)
- [Hardware code page](#)
- [LMBCS-1](#)

Notes

1. The reason for this might have been down to existing restrictions in the implementation of the codepage switching logic under MS-DOS/PC DOS, which limited .CPI files to 64 KB in size or about six codepages maximum, a limitation, which was circumvented in some OEM versions of MS-DOS, in Windows NT, and also does not exist in DR-DOS. Further, the parser in MS-DOS/PC DOS limits the number of possible country / codepage entries in COUNTRY.SYS files to a maximum of 146 or 438, a limitation non-existent in DR-DOS. So, adding support for codepage 858 might have meant to drop another (e.g. codepage 850) at the same time, which might not have been a viable solution at that time, given that some applications were hard-wired to use codepage 850.
2. The Windows NT line was natively Unicode from the start, but issues of development tool support and compatibility with Windows 9x kept most applications on the 8-bit code pages.

References

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5. "CCSID 850 information document" (<https://web.archive.org/web/20160327100212/http://www-01.ibm.com/software/globalization/ccsid/ccsid850.html>). Archived from the original (<http://www-01.ibm.com/software/globalization/ccsid/ccsid850.html>) on 2016-03-27.
6. Paul, Matthias R. (1997-07-30). "II.16.iii. Landessprachliche Unterstützung - Landescodes und Keyboard-Kürzel" [II.16.iii. National language support - Country codes and keyboard layout IDs]. *NWDOS-TIPS — Tips & Tricks rund um Novell DOS 7, mit Blick auf undokumentierte Details, Bugs und Workarounds* (<https://web.archive.org/web/20160606185230/http://www.antonis.de/dos/dos-tuts/mpdostip/html/nwdostip.htm>) [*NWDOSTIPs — Tips & tricks for Novell DOS 7, with special focus on undocumented details, bugs and workarounds*]. *MPDOSTIP*. Release 157 (in German) (3 ed.). Archived from the original (<http://www.antonis.de/dos/dos-tuts/mpdostip/html/nwdostip.htm>) on 2016-06-06. Retrieved 2016-06-06. (NB. NWDOSTIP.TXT is a comprehensive work on Novell DOS 7 and OpenDOS 7.01, including the description of many undocumented features and internals. It is part of the author's yet larger MPDOSTIP.ZIP collection maintained up to 2001 and distributed on many sites at the time. The provided link points to a HTML-converted older version of the NWDOSTIP.TXT file.)
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8. Paul, Matthias R. (2001-08-15). "Changing codepages in FreeDOS" (<https://web.archive.org/web/20160606182501/http://www.freedos.org/technotes/technote/txt/141.txt>) (Technical design specification). Archived from the original (<http://www.freedos.org/technotes/technote/txt/141.txt>) on 2016-06-06. Retrieved 2016-06-06. "The new official ID for the Multilingual "codepage 850 with EURO SIGN" is 858, not 850. IBM will switch to use 858 instead of their 850 variant with future issues of their products. [...] I can only guess why they didn't add 858 to their **EGAx.CPI**, **COUNTRY.SYS**, and **KEYBOARD.SYS** files in **PC DOS 2000**. Many third-party applications are designed to work with 850 and didn't know about 858 at the time PC DOS 2000 was released, so it's easier for everyone, but unfortunately it's not compatible. [...] As explained above, **COUNTRY.SYS** and **KEYBOARD.SYS** contain only two codepage entries for a given country in Western issues of DOS. (In Arabic and Hebrew issues there can be up to 8 codepages for one country, in theory there is no limit below the range of allowed codepages 1..65534). [...] The problem is that removing support for 850 might have caused compatibility problems with applications which are hard-wired to use 850. Adding 858 as a third choice to all the files would have increased the file and table sizes significantly. The **COUNTRY.SYS** file parser in MS-DOS/PC DOS **IO.SYS/IBMBIO.COM** sets aside a 6 Kb (for DOS 6) scratchpad to load all the info. This allows a maximum of 438 entries in a **COUNTRY.SYS** file to be accepted, otherwise you will get the message "COUNTRY.SYS too large.". The **NLSFUNC** parser does not have this limitation, and the file parsers in DR-DOS (kernel and **NLSFUNC**) also do not know of such a restriction. Older issues of MS-DOS/PC DOS even had a 2 Kb buffer for a maximum of 146 entries."
9. Paul, Matthias R. (2001-08-27). "Changing codepages in FreeDOS (follow-up)" (<https://marc.info/?l=freedos-dev&m=99895886029809&w=2>). Archived (<https://archive.today/20141001010941/http://marc.info/?l=freedos-dev&m=99895886029809&w=2>) from the original on 2014-10-01. Retrieved 2013-05-08. "[...] one could also create custom .CPI files in the traditional FONT style without difficulties, but you could only store up to [...] six codepages in such a file if it should be useable by MS-DOS/PC DOS (some OEM issues and NT can handle files larger than 64 Kb, but MS-DOS/PC DOS can not)." (NB. Based on fd-dev post [1] (<https://marc.info/?l=freedos-dev&m=99788711909602&w=2>).)
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