

Supplied UES Encodings

The tables in this document list the encodings available with universal encoding support (UES) when executing Adabas utilities or issuing Adabas commands. Encodings represent single-byte character sets (Latin-1 or not) or double-/multiple-character sets. If encodings:

- have a character set in common with other encodings so that conversion between them is accomplished without loss of data, they are "interoperable". Two encodings are said to be interoperable when all roundtrip string conversions return the same string as the original or if they have the same the CS number and F/M/S size.
- are not interoperable, they are "coexistent" with other encodings.

Columns used in the following tables are described as follows:

Key	ADA/ECS key number in decimal and hexadecimal
CS	character set as identified by IBM
CP	code page usually identical to the "key". It is <i>not</i> identical when <ul style="list-style-type: none"> ● CP does not fit into the ECS key number range 1-4095; or ● the encoding is constructed from two or more code pages.
F/M/S Size	F encoding uses all allocated graphical character space M maximum for given ESID S subset
ESID	encoding scheme identifier with the following entries: <ul style="list-style-type: none"> 1100 EBCDIC fixed 1 1301 EBCDIC mixed DBCS modal 2100 IBM PC data fixed 1 2200 IBM PC data DBCS only 2300 IBM PC data mixed DBCS nonmodal 4100 ISO-8 fixed 1 4105 ISO-8 fixed 1 graphic characters in the range x'80' - x'9F' reserved for control codes
Fill	the hexadecimal value representing the fill character used in the encoding.
Sub	the hexadecimal value representing the substitution character used in the encoding.

Encoding categories are described in this document.

- Interoperable Encodings
- Coexistent Encodings

Interoperable Encodings

Single-Byte Character Sets (Latin-1)

Key		CS	CP	F/M/S Size	ESID	Fill	Sub	Description
Dec	Hex							
37	025	697	37	F 190	1100	40	3F	CECP: USA, Canada (ESA*), Netherlands, Portugal, Brazil, Australia, New Zealand
273	111	697	273	F 190	1100	40	3F	CECP: Austria, Germany, de_deu
277	115	697	277	F 190	1100	40	3F	CECP: Denmark, Norway
278	116	697	278	F 190	1100	40	3F	CECP: Finland, Sweden
280	118	697	280	F 190	1100	40	3F	CECP: Italy, it_ita
284	11C	697	284	F 190	1100	40	3F	CECP: Spain, Latin America (Spanish), es_esp
285	11D	697	285	F 190	1100	40	3F	CECP: United Kingdom, en_gbr
297	129	697	297	F 190	1100	40	3F	CECP: France, fr_fra
500	1F4	697	500	F 190	1100	40	3F	CECP: Belgium, Canada (AS/400*), Switzerland, international Latin-1
819	333	697	819	F 190	4100	20	1A	ISO 8859-1: Latin alphabet, Latin-1
871	367	697	871	F 190	1100	40	3F	CECP: Iceland, is_ISL
1140	474	**	1140	F 190	1100	40	3F	IBM EBCDIC 37 with euro sign
1141	475	**	1141	F 190	1100	40	3F	IBM EBCDIC 273 with euro sign
1142	476	**	1142	F 190	1100	40	3F	IBM EBCDIC 277 with euro sign
1143	477	**	1143	F 190	1100	40	3F	IBM EBCDIC 278 with euro sign
1144	478	**	1144	F 190	1100	40	3F	IBM EBCDIC 280 with euro sign
1145	479	**	1145	F 190	1100	40	3F	IBM EBCDIC 284 with euro sign
1146	47A	**	1146	F 190	1100	40	3F	IBM EBCDIC 285 with euro sign
1147	47B	**	1147	F 190	1100	40	3F	IBM EBCDIC 297 with euro sign
1148	47C	**	1148	F 190	1100	40	3F	IBM EBCDIC 285 with euro sign
1149	47D	**	1149	F 190	1100	40	3F	IBM EBCDIC 871 with euro sign
*3946	F6A	697	850	S 190	2100	20	7F	PC data-190: Latin alphabet, Latin-1 (CCSID=4946)

* This code page is not yet available but may be at a later time.

** This information is not yet available.

Single-Byte Character Sets (Non-Latin-1)

Key	CS	CP	F/M/S Size	ESID	Fill	Sub	Description	
Dec	Hex							
420	1A4	235	420	M 181	1100	40	3F	IBM, Arabic (all presentation shapes)
424	1A8	941	424	M 152	1100	40	3F	IBM, Hebrew, iw_isr
813	32D	925	813	M 183	4100	20	1A	ISO 8859-7: Greek/Latin, el_GRC
870	366	959	870	F 190	1100	40	3F	IBM, Latin-2
875	36B	925	875	M 184	1100	40	3F	IBM, Greek, el_GRC
912	390	959	912	F 190	4100	20	1A	ISO 8859-2: Latin-2
914	392		914	F 190	4100	20	1A	ISO 8859-4
915	393	1150	915	F 190	4100	20	1A	ISO 8859-5: Cyrillic, 8-bit
916	394	941	916	M 152	4100	20	1A	ISO 8859-8: Hebrew, iw_ISR
918	396	1160	918	F 190	1100	40	3F	IBM, Urdu
919	397		919	F190	4100	20	1A	ISO 8859-10
920	398	1152	920	F 190	4100	20	1A	ISO 8859-9 Latin-5 (ECMA-128, Turkey TS-5881), tr_TUR
921	399	1305	921	F 190	4100	20	1A	IBM, Baltic, 8-bit
922	39A	1307	922	F 190	4100	20	1A	IBM, Estonia, 8-bit
923	39B	**	923	F 190	4100	20	1A	ISO 8859-15 Latin-9 with euro sign
924	39C	**	924	F 190	1100	40	3F	IBM EBCDIC Latin-9 with same character set as 923.
1006	3EE	1160	1006	F 190	4100	20	1A	IBM, Urdu
1025	401	1150	1025	F 190	1100	40	3F	IBM, Cyrillic multilingual
1026	402	1152	1026	F 190	1100	40	3F	IBM, Turkey Latin-5, tr_TUR
1112	458	1307	1112	F 190	1100	40	3F	IBM, Baltic, multilingual (EBCDIC)
1122	462	1307	1122	F 190	1100	40	3F	IBM, Estonia (EBCDIC)
3581	DFD	**	3581	F190	1100	40	3F	DF.04-F Latin-9, CCSN:EDF04F, Extended BS2000 code EBCDIC)

** This information is not yet available.

Double- and Multiple-Byte Character Sets

Key		CS	CP	F/M/S Size	ESID	Fill	Sub	Description
Dec	Hex							
290	122	1172	290	M 162	1100	40	3F	Japanese Katakana host extended SBCS, ja_JPN
836	344	1174	836	M 99	1100	40	3F	Simplified Chinese host extended SBCS (EBCDIC), zh_CHN
1027	403	1172	1027	M 162	1100	40	3F	IBM, Japanese Latin host extended SBCS, ja_JPN
1041	411	1172	1041	S 162	2100	20	1A	IBM, Japanese PC data extended SBCS, ja_JPN
1043	413	1175	1043	M 97	2100	20	1A	IBM, traditional Chinese PC data extended SBCS, zh_TWN
1115	45B	1174	1115	M 99	2100	20	1A	IBM, simplified Chinese PC data single-byte (IBM GB) including 5 SAA SB characters, zh_CHN
1380	564	937	1380	M 9355	2200	A1A1	FEFE	IBM, simplified Chinese DBCS PC (IBM GB) including 1880 UDC and 31 IBM-selected, zh_CHN
1381	565	1174937	11151380	M 9454	2300	20 A1A1	1A FEFE	IBM, simplified Chinese PC data mixed (IBM GB) including 1880 UDC, 31 IBM-selected and 5 SAA SB characters, zh_CHN
3026	BD2	1172370	290 300	S 9306	1301	40 4040	3F FEFE	IBM CCSID 5026, Japanese Katakana-Kanji host mixed including 1880 UDC, extended SBCS, ja_JPN
3035	BDB	1172 370	1027 300	S 9306	1301	40 4040	3F FEFE	IBM CCSID 5035, Japanese Latin-Kanji host mixed including 1880 UDC, extended SBCS, ja_JPN
3396	D44	370	300	S 9144	1200	4040	FEFE	IBM, CCSID 4396, Japanese host double-byte including 1880 UDC, ja_JPN
3709	E7D	1175	3709	S 97	1100	40	3F	IBM CCSID 28709: traditional Chinese host extended SBCS (EBCDIC), zh_TWN
4091	FFB			F 63456		0020	001A	UTF-8: with user/compatibility area; without surrogates

Coexistent Encodings

Single-Byte Character Sets

Key	CS	CP	F/M/S Size	ESID	Fill	Sub	Description	
Dec	Hex							
3	3	103	367	F 94	5100	20	1A	US-ASCII
6	6			F 190	4100	20	1A	ISO 8859-3, Latin-3, Afrikaans, Catalan, Dutch, English, German, Italian, Maltese, Spanish, Turkish
9	9			M 145	4100	20	1A	ISO 8859-6, Arabic
437	1B5	697	437	F 222	2100	20	1A	Microsoft MSDOS US, en_USA
720				F 223	2100	20	1F	Microsoft Windows OEM Codepage 720, Arabic
737				F 223	2100	20	1F	Microsoft Windows OEM Codepage 737, Greek
775				F 223	2100	20	1F	Microsoft Windows OEM Codepage 775, Baltic
803	323	-	803	F 88	1100	40	3F	IBM-803_STD Old Hebrew EBDIC IBM-803_p100-1999
850	350	¹¹⁰⁶	950	F 223	2100	20	1A	Microsoft multilingual code page 850, Latin-1
852				F 223	2100	20	1F	Microsoft Windows OEM Codepage 852, cp852_DOSLating2
857				F 223	2100	20	1F	Microsoft Windows OEM Codepage 857, Turkish
858	350	¹¹⁰⁶	950	F 222	2100	20	1A	Microsoft multilingual code page 850, Latin-1, euro-ready
862				F 223	2100	20	1F	Microsoft Windows OEM Codepage 862, Hebrew
866				F 223	2100	20	1F	Microsoft Windows OEM Codepage 866, Cyrillic
874				F 223	2100	20	1F	Microsoft Windows OEM Codepage 874, Thai
1047		697		F 190	1100	40	3F	IBM Latin-1 Open Systems EBCDIC
1250	4E2	1400	¹²⁵⁰	M 217	4105	20	1A	Microsoft, Windows ANSI, Latin-2, euro-ready

Key		CS	CP	F/M/S Size	ESID	Fill	Sub	Description
Dec	Hex							
1251	4E3	1401	1251	M 220	4105	20	1A	Microsoft, Windows ANSI, Cyrillic, euro-ready
1252	4E4	1402	1252	M 215	4105	20	1A	Microsoft, Windows ANSI, Latin-1, euro-ready
1253	4E5	1403	1253	M 206	4105	20	1A	Microsoft, Windows ANSI, Greek, euro-ready
1254	4E6	1404	1254	M 215	4105	20	1A	Microsoft, Windows ANSI, Turkey, euro-ready
1255	4E7	1405	1255	M 194	4105	20	1A	Microsoft, Windows ANSI, Hebrew, euro-ready
1256	4E8	1406	1256	M 214	4105	20	1A	Microsoft, Windows ANSI, Arabic, euro-ready
1257	4E9	1407	1257	M 203	4105	20	1A	Microsoft, Windows ANSI, Baltic rim, euro-ready
2084		948	878	F 222	4105	20	1F	KO18-R, Cyrillic PC
2087		813	775	S 222	2100	20	1F	MS-DOS Baltic PC-Data
2258		1408	1258	S 212	4105	20	1F	Microsoft, Windows-1258, Vietnam
3585	E01	646		S 95	1100	40	3F	BS2000 DF.03 International CCSN:EDF03IRV
3586	E02	265		S 95	1100	40	3F	BS2000 DF.03 CCSN:EDF03DR Austria, Germany (EBCDIC) - with Dollar
3587	E03			S 95	1100	40	3F	BS2000 DF.03 CCSN:EDF03DRI Austria, Germany (EBCDIC) - with International Currency Sign
3588	E04	697		F 190	1100	40	3F	BS2000 DF.04-DR V LATIN 1, CCSN:EDF04DR Austria, Germany (EBCDIC)
3589	E05	697		F 190	1100	40	3F	BS2000 DF.04-1 LATIN 1, CCSN:EDF041IRV International (EBDIC)
4092	FFC			3	-	20	A1	Software AG, used for ECS internally
4093	FFD				4100	20	1A	Software AG, old TS default, ASCII
4094	FFE	-	-		1100	40	3F	Software AG, old TS default, EBCDIC
4095	FFF			-	7200	0020	001A	Unicode

Double- and Multiple-Byte Character Sets

Key		CS	CP	F/M/S Size	ESID	Fill	Sub	Description
Dec	Hex							
18	12	103 1061 1121 1062	367 952 896 953	S 13102	4403	20 8140	1A	IBM CCSID 1350, EUC-JP, ja_JPN composed of US-ASCII, JIS-X-0208, HW Katakana, and JIS-X-0212-90
36	24				5404	20	1A	ISO-2022-JP, US-ASCII, JIS-Roman, JIS-0208-1983, JIS_C_6226-1978
300	12C	1001	300	M 11634	1200	4040	FEFE	IBM Japanese Latin host double-byte including 4370 UDC, ja_JPN
301	12D	370	301	M 9144	2200	8140	FCFC	IBM Japanese PC double-byte including 1880 UDC, SJIS, ja_JPN
835	343	935	835	M 20263	1200	4040	FEFE	IBM traditional Chinese host double-byte including 6204 UDC (EBCDIC) zh_TWN
837	345	937	837	M 9355	1200	4040	FEFE	Simplified Chinese host double-byte including 1880 UDC (EBCDIC), zh_CHN
927	39F	935	927	M 20263	2200	8140	FCFC	IBM traditional Chinese PC data double-byte including 6204 UDC, zh_TWN
932	3A4	1122370	897 301	M 9301	2300	20 8140	1A	Microsoft, JIS Roman, JIS-X-208, half-width Katakana, ja_JPN
935	3A7	1174 937	836 837	M 9454	1301	40 4040	3F FEFE	Simplified Chinese host mixed including 1880 UDC, extended SBCS (EBCDIC), zh_CHN
936	3A8	1185 937	1185 937	M 9449	2300	20 1A1A	1A	Microsoft, GB Roman, GB 2312-80, zh_CHN
937	3A9	1175 935	903 937	S 20360	1301	40 4040	3F FEFE	IBM traditional Chinese host mixed including 6204 UDC, extended SBCS (EBCDIC), zh_TWN
942	3AE	1172 370	1041 301	M 9306	2300	20 8140	1A FCFC	IBM, Japanese PC data mixed including 1880 UDC, extended SBCS, ja_JPN
948	3B4	1175 935	948	M 20360	2300	20 8140	1A FCFC	IBM, traditional Chinese PC data mixed including 6204 UDC, extended SBCS, zh_TWN

Key		CS	CP	F/M/S Size	ESID	Fill	Sub	Description
Dec	Hex							
949	3B5	1278 1050	949	M 10197	2300	20 A1A1	1A AFFE	IBM, Korean IBM KS code - PC data mixed including 1880 UDC, ko_KOR
950	3B6	103 935	950	M 20357	2300	20 A140	1A	Microsoft, Big Five, zh_TWN
951	3B7	1050	951	M 10103	2200	A1A1	AFFE	IBM, Korean IBM KS code - PC data double-byte including 1880 UDC, ko_KOR
3001		10001	3001			20 8140	1A	MAC Japanese, JIS-Roman, JIS-X-208, HW Katakana, ja_JPN
4037		1175 935		S 20360	1301	40 4040	3F FEFE	Same as EDD 937 Chinese EBCDIC, with code point X'5F' mapped to Unicode U+005E and X'B0' to U+00AC