

ISO/IEC 30112:2020-09 (E)

Information technology - Specification methods for cultural conventions

Contents		Page
Foreword		v
Introduction		vi
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
3.1	Bytes and characters	2
3.2	Cultural and other major concepts	2
3.3	FDCC-related categories	3
4	Notations	3
4.1	Notation for defining syntax	3
4.2	Portable character set	4
5	FDCC-set	6
5.1	General	6
5.2	FDCC-set description	7
5.2.1	General	7
5.2.2	Character representation	8
5.2.3	Continuation of lines	9
5.2.4	Names for copy keyword	9
5.2.5	Pre-category statements	9
5.3	LC_IDENTIFICATION	10
5.4	LC_CTYPE	12
5.4.1	General	12
5.4.2	Character classification keywords	13
5.4.3	Character string transliteration	17
5.4.4	"i18n" LC_CTYPE category	17
5.5	LC_COLLATE	42
5.5.1	General	42
5.5.2	Collation statements	44
5.5.3	"copy" keyword	46
5.5.4	"coll_weight_max" keyword	46
5.5.5	"section-symbol" keyword	47
5.5.6	"collating-element" keyword	47
5.5.7	"collating-symbol" keyword	47
5.5.8	"symbol-equivalence" keyword	48
5.5.9	"order_start" keyword	48
5.5.10	"order_end" keyword	49
5.5.11	"reorder-after" keyword	49
5.5.12	"reorder-end" keyword	50
5.5.13	"section" keyword	50
5.5.14	"reorder-section-after" keyword	51
5.6	LC_MONETARY	53
5.7	LC_NUMERIC	57
5.8	LC_TIME	58
5.8.1	General	58
5.8.2	Date field descriptors	62
5.8.3	Modified field descriptors	63

5.8.4	"i18n" LC_TIME category	64
5.9	LC_MESSAGES	65
5.10	LC_XLITERATE	65
5.10.1	General	65
5.10.2	Transliteration statements	66
5.10.3	"include" keyword	67
5.10.4	Example of use of transliteration	67
5.11	LC_NAME	68
5.12	LC_ADDRESS	69
5.13	LC_TELEPHONE	72
5.14	LC_PAPER	73
5.15	LC_MEASUREMENT	73
5.16	LC_KEYBOARD	74
6	CHARMAP	74
6.1	General	74
6.2	Character Set Description Text	74
7	Repertoiremap	79
8	Functionality	117
8.1	General	117
8.2	The "strcoll" function	117
8.3	The "setmedia" function	118
8.4	String, encoding, repertoire and locale data types	118
8.4.1	General	118
8.4.2	String data type	118
8.4.3	Encoding data type	118
8.4.4	Repertoire data type	121
8.4.5	Locale data type	121
8.4.6	Character handling	123
8.4.7	String comparison	124
8.4.8	Message formatting	125
8.4.9	Conversion between string and other data types	127
8.4.10	Utilities	131
9	Messages format	133
	Annex B (informative) Rationale	136
	Annex C (informative) BNF grammar	149
	Annex D (informative) Relation to taxonomy	155
	Annex E (informative) Implementation in glibc	158
	Annex F (informative) Relation between categories and keywords, and APIs	159
	Annex G (informative) Bindings guidelines	160