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# Rodzina fontów Cyklop

TECHNICAL DOCUMENTATION
DOKUMENTACJA TECHNICZNA

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The Cyclop typeface was designed in the 1920s at the workshop of Warsaw type foundry "Odlewnia Czcionek J. Idzkowski i S-ka". This sans serif typeface has a highly modulated stroke so it has high typographic contrast. The vertical stems are much heavier then horizontal ones. Most characters have thin rectangles as additional counters giving the unique shape of the characters.

The lead types of Cyclop typeface were produced in slanted variant at sizes 8-48 pt. It was heavily used for heads in newspapers and accidents prints. Typesetters used Cyclop in the inter-war period, during the occupation in the underground press. The typeface was used until the beginnings of the offset print and computer typesetting era. Nowadays it is hard to find the metal types of this typeface.

The font was generated using the Metatype1 package. Then the original set of characters was completed by adding the full set of accented letters and characters of the modern Latin alphabets (including Vietnamese).

The upright variant was generated and it was more complicated task than it appeared at the beginning. 11 upright letters of the Cyclop typeface were presented in the book by Filip Trzaska, "Podstawy techniki wydawniczej" ("Foundation of the publishing techonology"), Warsaw 1967. But even the author of the book does not know what was the source of the presented examples.

The fonts are distributed in the Type1 and OpenType formats along with the files necessary for use these fonts in TeX and LaTeX including encoding definition files: T1 (ec), T5 (Vietnamese), OT4, QX, texnansi and nonstandard ones (IL2 for Czech fonts).

W latach dwudziestych XX wieku, w pracowni projektowej warszawskiej „Odlewni Czcionek J. Idźkowski i S-ka" opracowano krój pisma drukarskiego o nazwie Cyklop. Dwuelementowe, bezszeryfowe czcionki charakteryzują się bardzo dużym kontrastem. Stemy pionowe są znacznie grubsze od stemów poziomych. Wewnętrzne oczka liter mają w większości kształt wydłużonego prostokąta. Dzięki temu znaki mają niepowtarzalny kształt.

Cyklop, w postaci czcionek ołowianych, produkowany był w odmianie kursywnej w rozmiarach 8-48 pt. Używany był bardzo intensywnie w tytulariach gazetowych i drukach akcydensowych. Zecerzy sięgali po niego w okresie miedzywojennym, w okresie okupacji w prasie podziemnej. Stosowany był aż do poczatków druku offsetowego i składu komputerowego. Obecnie trudno już go znaleźć w formie metalowych czcionek.

Fonty wygenerowałem korzystając z pakietu Metatype1. Uzupełniłem je o kompletny zestaw akcentowanych liter oraz znaki, których brak w oryginalnym zestawie, uwzględniający współczesne alfabety łacińskie (w tym wietnamski).

Wygenerowałem również odmianę prostą, co okazało się zadaniem bardziej skomplikowanym, niż się wcześniej wydawało. W książce Filipa Trzaski, Podstawy techniki wydawniczej (Warszawa 1967, Wydawn. CRZZ), pokazano 11 liter prostego Cyklopa. Jednak nawet F. Trzaska nie pamięta skąd się te przykładowe litery wzięły.

Fonty udostępniono w formatach Type 1 oraz OpenType. Dla wykorzystania w systemie TeX przygotowano odpowiednie pliki przekodowań: T1 (ec), T5 (wietnamski), OT4, QX, texnansi oraz niestandardowych (IL2 dla fontów czeskich), jak też wparcie w postaci odpowiednich makr i plików definiujących fonty dla LaTeX-a.

**OpenType features available with Cyklop**
**Dostępne funkcje zecerskie OpenType w rodzinie Cyklop**

script = 'DFLT'
  language = <default>
    features = 'aalt' 'c2sc' 'dnom' 'frac' 'liga' 'lnum' 'numr' 'onum' 'ordn' 'pnum' 'salt' 'sinf' 'smcp' 'ss01' 'sups' 'tnum' 'cpsp' 'kern'

script = 'latn'
  language = 'AZE '
    features = 'aalt' 'c2sc' 'dnom' 'frac' 'liga' 'lnum' 'numr' 'onum' 'ordn' 'pnum' 'salt' 'sinf' 'smcp' 'ss01' 'sups' 'tnum' 'cpsp' 'kern'
  language = 'CRT '
    features = 'aalt' 'c2sc' 'dnom' 'frac' 'liga' 'lnum' 'numr' 'onum' 'ordn' 'pnum' 'salt' 'sinf' 'smcp' 'ss01' 'sups' 'tnum' 'cpsp' 'kern'
  language = 'MOL '
    features = 'aalt' 'c2sc' 'dnom' 'frac' 'liga' 'lnum' 'locl' 'numr' 'onum' 'ordn' 'pnum' 'salt' 'sinf' 'smcp' 'ss01' 'sups' 'tnum' 'cpsp' 'kern'
  language = 'NLD '
    features = 'aalt' 'c2sc' 'dnom' 'frac' 'liga' 'lnum' 'numr' 'onum' 'ordn' 'pnum' 'salt' 'sinf' 'smcp' 'ss01' 'sups' 'tnum' 'cpsp' 'kern'
  language = 'PLK '
    features = 'aalt' 'c2sc' 'dnom' 'frac' 'liga' 'lnum' 'numr' 'onum' 'ordn' 'pnum' 'salt' 'sinf' 'smcp' 'ss01' 'sups' 'tnum' 'cpsp' 'kern'
  language = 'ROM '
    features = 'aalt' 'c2sc' 'dnom' 'frac' 'liga' 'lnum' 'locl' 'numr' 'onum' 'ordn' 'pnum' 'salt' 'sinf' 'smcp' 'ss01' 'sups' 'tnum' 'cpsp' 'kern'
  language = 'TRK '
    features = 'aalt' 'c2sc' 'dnom' 'frac' 'liga' 'lnum' 'numr' 'onum' 'ordn' 'pnum' 'salt' 'sinf' 'smcp' 'ss01' 'sups' 'tnum' 'cpsp' 'kern'
  language = <default>
    features = 'aalt' 'c2sc' 'dnom' 'frac' 'liga' 'lnum' 'numr' 'onum' 'ordn' 'pnum' 'salt' 'sinf' 'smcp' 'ss01' 'sups' 'tnum' 'cpsp' 'kern'

**OpenType features–examples of use**
**Przykłady zastosowania funkcji zecerskich fontów OTF Cyklop**

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"Cyklop" -> **0369 --- „OHamburgeffionst"**

"Cyklop/I" -> ***0369 --- „OHamburgeffionst"***

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Using the XƎTEX's ligature *mapping=tex-text* and small caps *smcp* mechanisms:
Włączenie XƎTEX-owego mechanizmu ligaturowania *mapping=tex-text* oraz minuskuł kapitalikowych *smcp*:

"Cyklop:mapping=tex-text,+smcp" -> **0369 — „OHAMBURGEFFIONST”**

"Cyklop/I:mapping=tex-text,+smcp" -> ***0369 — „OHAMBURGEFFIONST”***

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Turning the *liga* feature off (in XƎTEXon by default):
Wyłączenie funkcji *liga* (domyślnie włączonej w XƎTEX-u):

"Cyklop:-liga" -> **12345 ABC abcffi**

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Turning the *c2sc* feture on (changes upper case letters into small caps):
Włączenie funkcji *c2sc* zamieniajacej majuskuły na kapitaliki:

"Cyklop:+c2sc" -> **12345 ABC abcffi**

---

Turning the *onum* feature on (old style numerals):
Włączenie funkcji *onum* włączającej cyfry nautyczne (oldstyle):

"Cyklop:+onum" -> **0123456789 ABC abc**

---

Turning the *pnum* feature on (proportional numerals):
Włączenie funkcji *pnum* włączającej cyfry proporcjonalne:

"Cyklop:+pnum" -> **0123456789 ABC abc**

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Turning the *onum*+*pnum* feature on (proportional old style numerals):
Włączenie funkcji *onum*+*pnum* włączających cyfry nautyczne proporcjonalne:

"Cyklop:+onum,+pnum" -> **0123456789 ABC abc**

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Turning the *numr* feature on (nominator numerals):
Włączenie funkcji *numr* włączającej cyfry licznika ułamkowego:

"Cyklop:+numr" -> **0123456789 ABC abc**

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Turning the *dnom* feature on (denominator numerals):
Włączenie funkcji *dnom* włączającej cyfry mianownika ułamkowego:

"Cyklop:+dnom" -> **0123456789 ABC abc**

---

Turning the *sups* feature on (superscript numerals):
Włączenie funkcji *sups* włączającej frakcje górne cyfr:

"Cyklop:+sups" -> **(0,1+2=3−456.789) ABC abc**

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Turning the *sinf* feature on (subscript numerals):
Włączenie funkcji *sinf* włączającej frakcje dolne cyfr:

"Cyklop/I:+sinf" -> (0,123–456.789) ABC abc

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Turning the *frac* feature on (fractions):
Włączenie funkcji *frac* tworzącej liczby ułamkowe:

"Cyklop:+frac" -> 123⁄45 ABC abcffi

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Turning the *salt* feature on (alternative versions of "W", "w", "S", "s", also accented):
Włączenie funkcji *salt* włączającej alternatywne wersje znaków: „W", „w", „S", „s" wraz z akcentami:

"Cyklop/I:+salt" -> Warszawa w święta

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Turning the *ordn* feature on (ordinals):

Włączenie funkcji *ordn* włączającej liczebniki porządkowe:

"Cyklop/I:+pnum,+ordn" -> 1st 2nd 3rd 12th 5ª 7º

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Turning the *kern* feature off (no kerning):
Wyłączenie funkcji *kern* regulującej odstępy między wybranymi parami liter fontu:

"Cyklop:-kern" -> WARSZAWA VAT

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Turning the *letterspace* feature on (letter-spacing):
Włączenie funkcji *letterspace* regulującej odstępy między wszystkimi znakami fontu:

"Cyklop:letterspace=10" -> 012345 „ABC" abc

"Cyklop:letterspace=-5" -> »WARSZAWA« VATA:

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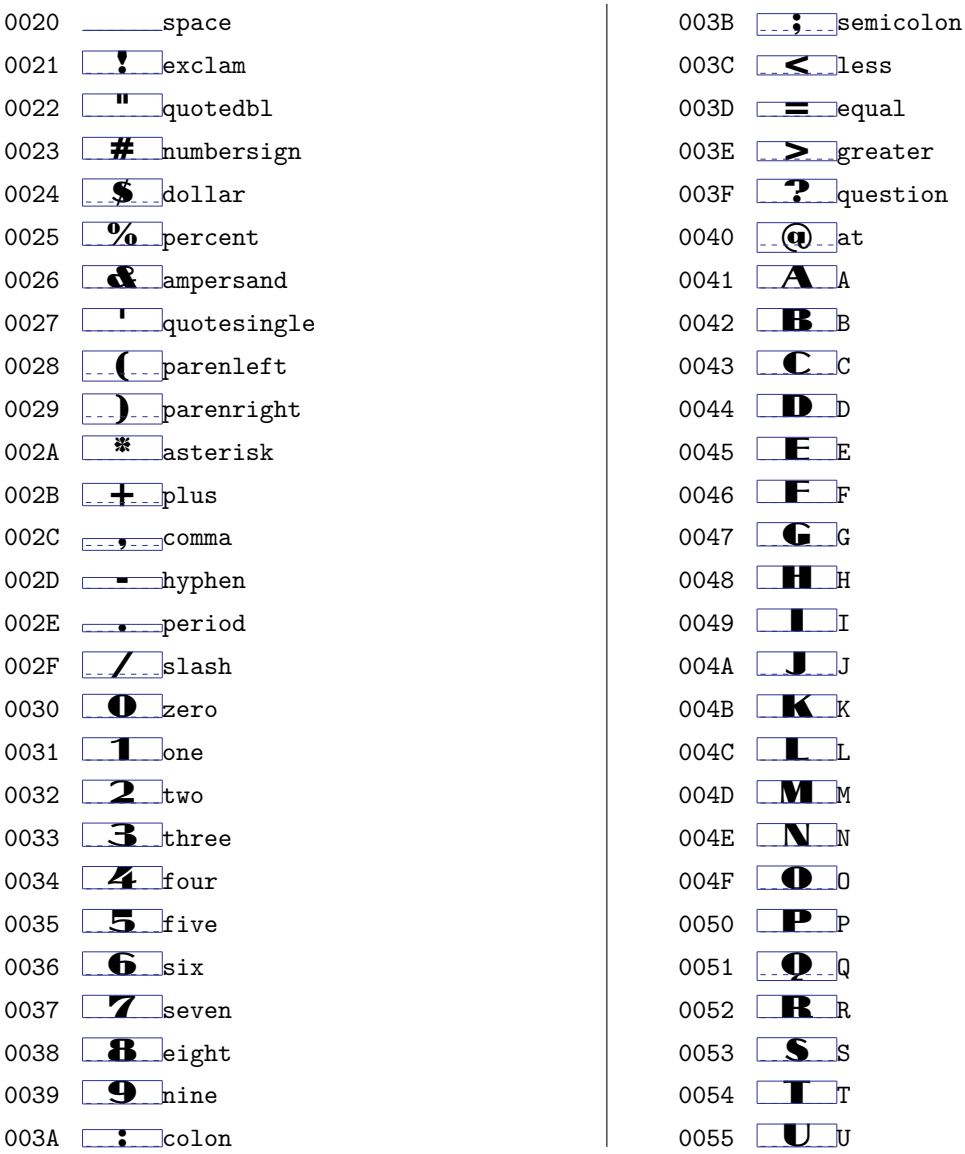
**The repertoire of glyphs of Cyklop. Each subcolumn contains: unicode number (if present), glyphs in all variants, the OTF name or the OTF name placed above the Type 1 name (if they differ).**

**Repertuar glifów w foncie Cyklop. Kolumny zawierają kolejno: numer unicode (jeśli określony), glify we wszystkich wariantach, nazwę OTF lub nazwę OTF umieszczoną powyżej nazwy Type 1 (jeśli się różnią).**

## 0. No unicodes


## 1. Standard low unicodes 0020 .. 007E



0056 V
0057 W
0058 X
0059 Y
005A Z
005B bracketleft
005C backslash
005D bracketright
005E asciicircum
005F underscore
0060 grave
0061 a
0062 b
0063 c
0064 d
0065 e
0066 f
0067 g
0068 h
0069 i
006A j
006B k
006C l
006D m
006E n
006F o
0070 p
0071 q
0072 r
0073 s
0074 t
0075 u
0076 v
0077 w
0078 x
0079 y
007A z
007B braceleft
007C bar
007D braceright
007E asciitilde

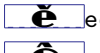
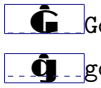
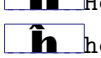
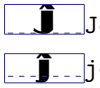
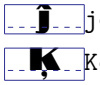
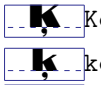
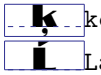
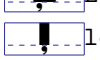
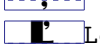
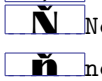
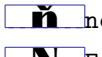
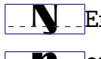
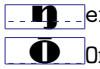
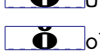
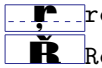
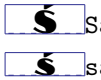
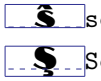
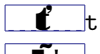
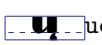
## 2. Standard high unicodes FB00 .. FB06

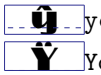
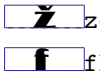
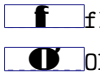
FB00 f_f ff
FB01 f_i fi
FB02 f_l fl
FB03 f_f_i ffi
FB04 f_f_l ffl

## 3. Standard other unicodes 0080 .. DFFF (actually in 00A0 .. uni2AB0)

00A0 uni00A0 nbspace
00A1 exclamdown
00A2 cent
00A3 sterling
00A4 currency
00A5 yen
00A6 brokenbar
00A7 section
00A8 dieresis
00A9 copyright
00AA ordfeminine
00AB guillemotleft
00AC logicalnot
00AE registered
00AF macron
00B0 degree
00B1 plusminus
00B2 two.superior
00B3 three.superior
00B4 acute
00B5 mu
00B6 paragraph
00B7 periodcentered
00B8 cedilla
00B9 one.superior
00BA ordmasculine
00BB guillemotright
00BC onequarter
00BD onehalf

00BE ¾ threequarters
00BF ¿ questiondown
00C0 À Agrave
00C1 Á Aacute
00C2 Â Acircumflex
00C3 Ã Atilde
00C4 Ä Adieresis
00C5 Å Aring
00C6 Æ AE
00C7 Ç Ccedilla
00C8 È Egrave
00C9 É Eacute
00CA Ê Ecircumflex
00CB Ë Edieresis
00CC Ì Igrave
00CD Í Iacute
00CE Î Icircumflex
00CF Ï Idieresis
00D0 Ð Eth
00D1 Ñ Ntilde
00D2 Ò Ograve
00D3 Ó Oacute
00D4 Ô Ocircumflex
00D5 Õ Otilde
00D6 Ö Odieresis
00D7 × multiply
00D8 Ø Oslash
00D9 Ù Ugrave
00DA Ú Uacute
00DB Û Ucircumflex
00DC Ü Udieresis
00DD Ý Yacute
00DE Þ Thorn
00DF ß germandbls
00E0 à agrave
00E1 á aacute
00E2 â acircumflex
00E3 ã atilde
00E4 ä adieresis
00E5 å aring
00E6 æ ae
00E7 ç ccedilla
00E8 è egrave
00E9 é eacute
00EA ê ecircumflex
00EB ë edieresis
00EC ì igrave
00ED í iacute
00EE î icircumflex
00EF ï idieresis
00F0 ð eth
00F1 ñ ntilde
00F2 ò ograve
00F3 ó oacute
00F4 ô ocircumflex
00F5 õ otilde
00F6 ö odieresis
00F7 ÷ divide
00F8 ø oslash
00F9 ù ugrave
00FA ú uacute
00FB û ucircumflex
00FC ü udieresis
00FD ý yacute
00FE þ thorn
00FF ÿ ydieresis
0100 Ā Amacron
0101 ā amacron
0102 Ă Abreve
0103 ă abreve
0104 Ą Aogonek
0105 ą aogonek
0106 Ć Cacute
0107 ć cacute
0108 Ĉ Ccircumflex
0109 ĉ ccircumflex
010A Ċ Cdotaccent
010B ċ cdotaccent
010C Č Ccaron
010D č ccaron
010E Ď Dcaron
010F ď dcaron
0110 Đ Dcroat
0111 đ dcroat
0112 Ē Emacron
0113 ē emacron
0114 Ĕ Ebreve
0115 ĕ ebreve
0116 Ė Edotaccent
0117 ė edotaccent

0118  Eogonek
0119  eogonek
011A  Ecaron
011B  ecaron
011C  Gcircumflex
011D  gcircumflex
011E  Gbreve
011F  gbreve
0120  Gdotaccent
0121  gdotaccent
0122  Gcommaaccent
0123  gcommaaccent
0124  Hcircumflex
0125  hcircumflex
0126  Hbar
0127  hbar
0128  Itilde
0129  itilde
012A  Imacron
012B  imacron
012C  Ibreve
012D  ibreve
012E  Iogonek
012F  iogonek
0130  Idotaccent
0131  dotlessi
0132  I_J IJ
0133  i_j ij
0134  Jcircumflex
0135  jcircumflex
0136  Kcommaaccent
0137  kcommaaccent
0139  Lacute
013A  lacute
013B  Lcommaaccent
013C  lcommaaccent
013D  Lcaron
013E  lcaron
013F  Ldot
0140  ldot
0141  Lslash
0142  lslash
0143  Nacute
0144  nacute
0145  Ncommaaccent
0146  ncommaaccent
0147  Ncaron
0148  ncaron
014A  Eng
014B  eng
014C  Omacron
014D  omacron
014E  Obreve
014F  obreve
0150  Ohungarumlaut
0151  ohungarumlaut
0152  OE
0153  oe
0154  Racute
0155  racute
0156  Rcommaaccent
0157  rcommaaccent
0158  Rcaron
0159  rcaron
015A  Sacute
015B  sacute
015C  Scircumflex
015D  scircumflex
015E  Scedilla
015F  scedilla
0160  Scaron
0161  scaron
0162  Tcedilla
0163  tcedilla
0164  Tcaron
0165  tcaron
0168  Utilde
0169  utilde
016A  Umacron
016B  umacron
016C  Ubreve
016D  ubreve
016E  Uring
016F  uring
0170  Uhungarumlaut
0171  uhungarumlaut
0172  Uogonek
0173  uogonek
0174  Wcircumflex
0175  wcircumflex

0176  Ycircumflex
0177  ycircumflex
0178  Ydieresis
0179  Zacute
017A  zacute
017B  Zdotaccent
017C  zdotaccent
017D  Zcaron
017E  zcaron
0192  florin
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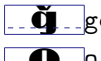
01AF  Uhorn
01B0  uhorn
01E6  Gcaron
01E7  gcaron
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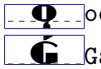
01EB  oogonek
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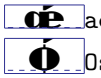
01FD  aeacute
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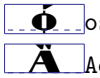
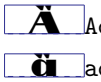
01FF  oslashacute
0200  Adblgrave
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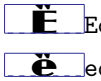
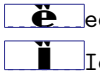
0204  Edblgrave
0205  edblgrave
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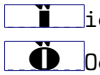
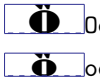
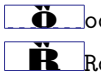
0209  idblgrave
020C  Odblgrave
020D  odblgrave
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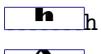
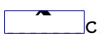
02B0  h.superior
02C6  circumflex
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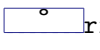
02DA  ring
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02DC  tilde
02DD  hungarumlaut
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1E0D  ddotbelow
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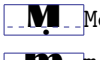
1E38  Ldotbelowmacron
1E39  ldotbelowmacron
1E42  Mdotbelow
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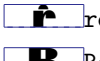
1E59  rdotaccent
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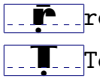
1E5C  Rdotbelowmacron
1E5D  rdotbelowmacron
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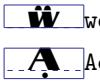
1E85  wdieresis
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1EA3  ahookabove
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1EA5  acircumflexacute
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1EA9  acircumflexhookabove

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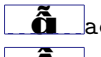
1EAB  acircumflextilde
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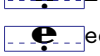
1EB7  abrevedotbelow
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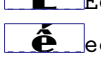
1EBC  Etilde
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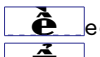
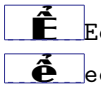
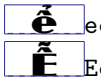
1EBE  Ecircumflexacute
1EBF  ecircumflexacute
1EC0  Ecircumflexgrave
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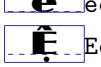
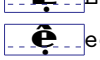
1EC2  Ecircumflexhookabove
1EC3  ecircumflexhookabove
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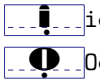
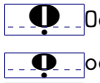
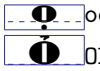
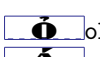
1EC7  ecircumflexdotbelow
1EC8  Ihookabove
1EC9  ihookabove
1ECA  Idotbelow
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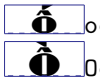
1ECC  Odotbelow
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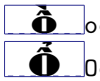
1ECE  Ohookabove
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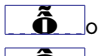
1ED7  ocircumflextilde
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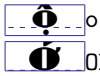
1ED9  ocircumflexdotbelow
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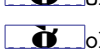
1EDC  Ohorngrave
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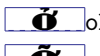
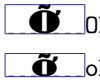
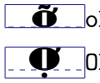
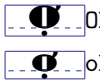
1EDE  Ohornhookabove
1EDF  ohornhookabove
1EE0  Ohorntilde
1EE1  ohorntilde
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1EE8  Uhornacute
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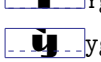
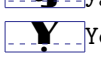
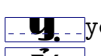
1EEF  uhorntilde
1EF0  Uhorndotbelow
1EF1  uhorndotbelow
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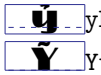
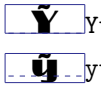
1EF3  ygrave
1EF4  Ydotbelow
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1EF6  Yhookabove
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1EF8  Ytilde
1EF9  ytilde
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2016  dblverticalbar
2018  quoteleft
2019  quoteright
201A  quotesinglbase
201C  quotedblleft
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201E  quotedblbase
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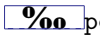
2030  perthousand
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2045  quillbracketleft
2046  quillbracketright
2070  zero.superior
2074  four.superior
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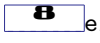
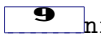
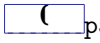
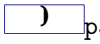
2078  eight.superior
2079  nine.superior
207D  parenleft.superior
207E  parenright.superior
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2088  eight.inferior
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208D  parenleft.inferior
208E  parenright.inferior
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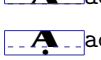
2222  anglearc
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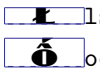
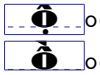
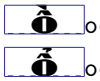
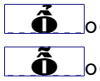
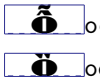
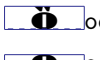
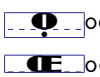
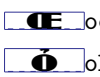
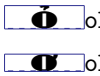
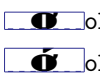
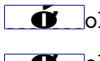
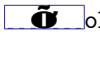
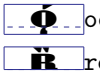
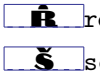
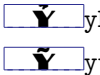
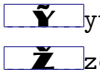
2264  lessequal
2265  greaterequal
2300  diameter
2329  angleleft
232A  angleright
25E6  openbullet
27E6  dblbracketleft
27E7  dblbracketright

## 4. Private unicodes [sc] E000 .. E058

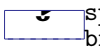
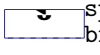
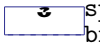
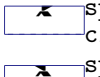
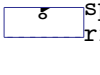
E000  abreveacute.sc
E001  abrevedotbelow.sc
E002  abrevegrave.sc
E003  abrevehookabove.sc
E004  abrevetilde.sc
E005  acircumflexacute.sc
E006  acircumflexdotbelow.sc
E007  acircumflexgrave.sc
E008  acircumflexhookabove.sc
E009  acircumflextilde.sc
E00A  adblgrave.sc
E00B  adotbelow.sc
E00C  ahookabove.sc
E00E  aogonekacute.sc
E00F  aringacute.sc
E010  dcroat.sc
E011  ddotbelow.sc
E013  dotlessi.sc
E014  dotlessj.sc
E017  ecircumflexacute.sc
E018  ecircumflexdotbelow.sc
E019  ecircumflexgrave.sc
E01A  ecircumflexhookabove.sc
E01B  ecircumflextilde.sc
E01C  edblgrave.sc
E01D  edotbelow.sc
E01E  ehookabove.sc
E01F  eogonekacute.sc
E020  etilde.sc
E021  gacute.sc
E022  gcaron.sc
E023  germandbls.sc

E027  idblgrave.sc
E028  idotbelow.sc
E029  ihookabove.sc
E02A  iogonekacute.sc
E02B  jacute.sc
E02C  lslash.sc
E02E  ocircumflexacute.sc
E02F  ocircumflexdotbelow.sc
E030  ocircumflexgrave.sc
E031  ocircumflexhookabove.sc
E032  ocircumflextilde.sc
E033  odblgrave.sc
E034  odotbelow.sc
E035  oe.sc
E036  ohookabove.sc
E037  ohorn.sc
E038  ohornacute.sc
E039  ohorndotbelow.sc
E03A  ohorngrave.sc
E03B  ohornhookabove.sc
E03C  ohorntilde.sc
E03D  oogonek.sc
E03E  oogonekacute.sc
E03F  rdblgrave.sc
E040  rdotaccent.sc
E041  scaron.sc
E043  tcedilla.sc
E045  tdotbelow.sc
E04A  udblgrave.sc
E04B  udotbelow.sc
E04C  uhookabove.sc
E04D  uhorn.sc
E04E  uhornacute.sc
E04F  uhorndotbelow.sc
E050  uhorngrave.sc
E051  uhornhookabove.sc
E052  uhorntilde.sc
E053  ydotbelow.sc
E054  yhookabove.sc
E055  ytilde.sc
E056  zcaron.sc

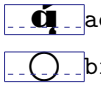
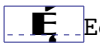
## 5. Private [ligs] unicodes E800 .. E804

E803  f_k

## 6. Private [acc] unicodes EA00 .. EA44, see also sec. 9

EA04  space_uni0306_uni0301 breveacute
EA09  space_uni0306_uni0300 brevegrave
EA0B  space_uni0306_uni0309 brevehookabove
EA0D  space_uni0311 breveinverted
EA10  space_uni0306_uni0303 brevetilde
EA17  space_uni0302_uni0301 circumflexacute
EA1A  space_uni0302_uni0300 circumflexgrave
EA1C  space_uni0302_uni0309 circumflexhookabove
EA1E  space_uni0302_uni0303 circumflextilde
EA1F  space_uni0326 commaaccent
EA26  space_uni030F dblgrave
EA33  space_uni0309 hookabove
EA40  space_uni030A_uni0301 ringacute

## 7. Private [misc] unicodes EB00 .. uniEB7D and uniEC00 .. uniEC08

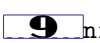
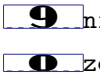
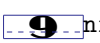
EB03  Aogonekacute
EB04  aogonekacute
EB08  bigcircle
EB16  died
EB19  space_uni0323 dotbelow
EB1B  d_quoteright dquoteright
EB1E  Eogonekacute
EB1F  eogonekacute
EB28  S_S Germandbls

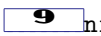
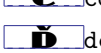
EB30  hyphen.prop
EB31  hyphendbl
EB35  Iogonekacute
EB36  iogonekacute
EB3A  Jacute
EB3B  jacute

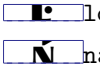
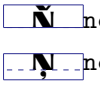
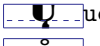
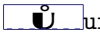
EB48  Oogonekacute
EB49  oogonekacute
EB67  asciitilde.low tildelow
EB6B  emdash.alt twelveudash

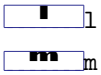
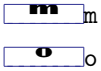
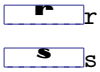
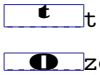
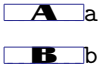
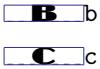
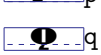
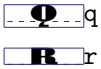
## 8. Private unicodes [math] ED00 .. ED7A, empty so far

## 9. Adobe Glyph List 2.00 private unicodes and Adobe Corporate Use Subarea

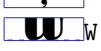
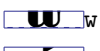
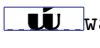
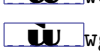
F639  zero.prop
F63A  two.prop
F63B  three.prop
F63C  four.prop
F63D  five.prop
F63E  six.prop
F63F  seven.prop
F640  eight.prop
F641  nine.prop
F643  zero.taboldstyle
F644  one.taboldstyle
F645  two.taboldstyle
F646  three.taboldstyle
F647  four.taboldstyle
F648  five.taboldstyle
F649  six.taboldstyle
F64A  seven.taboldstyle
F64B  eight.taboldstyle
F64C  nine.taboldstyle
F655  zero.dnom
F656  one.dnom
F657  two.dnom
F658  three.dnom
F659  four.dnom
F65A  five.dnom
F65B  six.dnom
F65C  seven.dnom
F65D  eight.dnom
F65E  nine.dnom
F661  zero.numr
F662  one.numr
F663  two.numr
F664  three.numr
F665  four.numr

F666  five.numr
F667  six.numr
F668  seven.numr
F669  eight.numr
F66A  nine.numr
F66D  abreve.sc
F66E  amacron.sc
F66F  aogonek.sc
F670  aeacute.sc
F671  cacute.sc
F672  ccaron.sc
F673  ccircumflex.sc
F674  cdotaccent.sc
F675  dcaron.sc
F677  ebreve.sc
F678  ecaron.sc
F679  edotaccent.sc
F67A  emacron.sc
F67B  eng.sc
F67C  eogonek.sc
F67D  gbreve.sc
F67E  gcircumflex.sc
F67F  gcommaaccent.sc
F680  gdotaccent.sc
F681  hbar.sc
F682  hcircumflex.sc
F683  ibreve.sc
F684  i_j.sc ij.sc
F685  imacron.sc
F686  iogonek.sc
F687  itilde.sc
F688  jcircumflex.sc
F689  kcommaaccent.sc
F68A  lacute.sc

F68B  lcaron.sc
F68C  lcommaaccent.sc
F68D  ldot.sc
F68E  nacute.sc
F68F  ncaron.sc
F690  ncommaaccent.sc
F691  obreve.sc
F692  ohungarumlaut.sc
F693  omacron.sc
F694  oslashacute.sc
F695  racute.sc
F696  rcaron.sc
F697  rcommaaccent.sc
F698  sacute.sc
F699  scedilla.sc
F69A  scircumflex.sc
F69B  uni0219.sc
scommaaccent.sc
F69D  tcaron.sc
F69E  uni021B.sc
tcommaaccent.sc
F69F  ubreve.sc
F6A0  uhungarumlaut.sc
F6A1  umacron.sc
F6A2  uogonek.sc
F6A3  uring.sc
F6A4  utilde.sc
F6A5  wacute.sc
F6A6  wcircumflex.sc
F6A7  wdieresis.sc
F6A8  wgrave.sc
F6A9  ycircumflex.sc
F6AA  ygrave.sc
F6AB  zacute.sc
F6AC  zdotaccent.sc
F6AD  idotaccent.sc
F6BE  dotlessj
F6DC  one.prop
F6DE  threequartersemdash
F6E1  comma.inferior
F6E2  comma.superior
F6E5  hyphen.inferior
F6E6  hyphen.superior
F6E7  period.inferior
F6E8  period.superior
F6E9  a.superior
F6EA  b.superior

F6EB  d.superior
F6EC  e.superior
F6ED  i.superior
F6EE  l.superior
F6EF  m.superior
F6F0  o.superior
F6F1  r.superior
F6F2  s.superior
F6F3  t.superior
F730  zero.oldstyle
F731  one.oldstyle
F732  two.oldstyle
F733  three.oldstyle
F734  four.oldstyle
F735  five.oldstyle
F736  six.oldstyle
F737  seven.oldstyle
F738  eight.oldstyle
F739  nine.oldstyle
F761  a.sc
F762  b.sc
F763  c.sc
F764  d.sc
F765  e.sc
F766  f.sc
F767  g.sc
F768  h.sc
F769  i.sc
F76A  j.sc
F76B  k.sc
F76C  l.sc
F76D  m.sc
F76E  n.sc
F76F  o.sc
F770  p.sc
F771  q.sc
F772  r.sc
F773  s.sc
F774  t.sc
F775  u.sc
F776  v.sc
F777  w.sc
F778  x.sc
F779  y.sc
F77A  z.sc

F7E0  agrave.sc
F7E1  aacute.sc
F7E2  acircumflex.sc
F7E3  atilde.sc
F7E4  adieresis.sc
F7E5  aring.sc
F7E6  ae.sc
F7E7  ccedilla.sc
F7E8  egrave.sc
F7E9  eacute.sc
F7EA  ecircumflex.sc
F7EB  edieresis.sc
F7EC  igrave.sc
F7ED  iacute.sc
F7EE  icircumflex.sc
F7EF  idieresis.sc
F7F0  eth.sc
F7F1  ntilde.sc
F7F2  ograve.sc
F7F3  oacute.sc
F7F4  ocircumflex.sc
F7F5  otilde.sc
F7F6  odieresis.sc
F7F8  oslash.sc
F7F9  ugrave.sc
F7FA  uacute.sc
F7FB  ucircumflex.sc
F7FC  udieresis.sc
F7FD  yacute.sc
F7FE  thorn.sc
F7FF  ydieresis.sc

F900  S.alt
F901  Sacute.alt
F902  Scaron.alt
F903  Scircumflex.alt
F904  Scommaaccent.alt
F905  W.alt
F906  Wacute.alt
F907  Wcircumflex.alt
F908  Wdieresis.alt
F909  Wgrave.alt
F90A  s.alt
F90B  s.sc.alt
F90C  sacute.sc.alt
F90D  sacute.alt
F90E  scaron.sc.alt
F90F  scaron.alt
F910  scircumflex.sc.alt
F911  scircumflex.alt
F912  scommaaccent.sc.alt
F913  scommaaccent.alt
F914  v.alt
F915  w.alt
F916  w.sc.alt
F917  wacute.sc.alt
F918  wacute.alt
F919  wcircumflex.sc.alt
F91A  wcircumflex.alt
F91B  wdieresis.sc.alt
F91C  wdieresis.alt
F91D  wgrave.sc.alt
F91E  wgrave.alt

## Cyklop: CS (CS TUG) encoding table

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11 | x0B | 43 | x2B | 76 | x4C | 109 | x6D | 151 | x97 | 190 | xBE | 224 | xE0 | | |
| 12 | x0C | 44 | x2C | 77 | x4D | 110 | x6E | 152 | x98 | 191 | xBF | 225 | xE1 | | |
| 13 | x0D | 45 | x2D | 78 | x4E | 111 | x6F | 154 | x9A | 192 | xC0 | 226 | xE2 | | |
| 14 | x0E | 46 | x2E | 79 | x4F | 112 | x70 | 157 | x9D | 193 | xC1 | 227 | xE3 | | |
| 15 | x0F | 47 | x2F | 80 | x50 | 113 | x71 | 158 | x9E | 194 | xC2 | 228 | xE4 | | |
| 16 | x10 | 48 | x30 | 81 | x51 | 114 | x72 | 159 | x9F | 195 | xC3 | 229 | xE5 | | |
| 17 | x11 | 49 | x31 | 82 | x52 | 115 | x73 | 161 | xA1 | 196 | xC4 | 230 | xE6 | | |
| 18 | x12 | 50 | x32 | 83 | x53 | 116 | x74 | 163 | xA3 | 197 | xC5 | 231 | xE7 | | |
| 19 | x13 | 51 | x33 | 84 | x54 | 117 | x75 | 164 | xA4 | 198 | xC6 | 232 | xE8 | | |
| 20 | x14 | 52 | x34 | 85 | x55 | 118 | x76 | 165 | xA5 | 199 | xC7 | 233 | xE9 | | |
| 21 | x15 | 53 | x35 | 86 | x56 | 119 | x77 | 166 | xA6 | 200 | xC8 | 234 | xEA | | |
| 22 | x16 | 54 | x36 | 87 | x57 | 120 | x78 | 167 | xA7 | 201 | xC9 | 235 | xEB | | |
| 23 | x17 | 55 | x37 | 88 | x58 | 121 | x79 | 169 | xA9 | 202 | xCA | 236 | xEC | | |
| 24 | x18 | 56 | x38 | 89 | x59 | 122 | x7A | 170 | xAA | 203 | xCB | 237 | xED | | |
| 25 | x19 | 57 | x39 | 90 | x5A | 123 | x7B | 171 | xAB | 204 | xCC | 238 | xEE | | |
| 26 | x1A | 58 | x3A | 91 | x5B | 124 | x7C | 172 | xAC | 205 | xCD | 239 | xEF | | |
| 27 | x1B | 59 | x3B | 92 | x5C | 125 | x7D | 174 | xAE | 206 | xCE | 240 | xF0 | | |
| 28 | x1C | 60 | x3C | 93 | x5D | 126 | x7E | 175 | xAF | 207 | xCF | 241 | xF1 | | |
| 29 | x1D | 61 | x3D | 94 | x5E | 127 | x7F | 176 | xB0 | 208 | xD0 | 242 | xF2 | | |
| 30 | x1E | 62 | x3E | 95 | x5F | 128 | x80 | 177 | xB1 | 209 | xD1 | 243 | xF3 | | |
| 31 | x1F | 63 | x3F | 96 | x60 | 129 | x81 | 179 | xB3 | 210 | xD2 | 244 | xF4 | | |
| 32 | x20 | 64 | x40 | 97 | x61 | 130 | x82 | 181 | xB5 | 211 | xD3 | 245 | xF5 | | |
| 33 | x21 | 65 | x41 | 98 | x62 | 131 | x83 | 182 | xB6 | 212 | xD4 | 246 | xF6 | | |
| 34 | x22 | 66 | x42 | 99 | x63 | 132 | x84 | 184 | xB8 | 213 | xD5 | 247 | xF7 | | |
| 35 | x23 | 67 | x43 | 100 | x64 | 133 | x85 | 185 | xB9 | 214 | xD6 | 248 | xF8 | | |
| 36 | x24 | 68 | x44 | 101 | x65 | 134 | x86 | 186 | xBA | 215 | xD7 | 249 | xF9 | | |
| 37 | x25 | 69 | x45 | 102 | x66 | 136 | x88 | 187 | xBB | 216 | xD8 | 250 | xFA | | |
| 38 | x26 | 70 | x46 | 103 | x67 | 137 | x89 | 188 | xBC | 217 | xD9 | 251 | xFB | | |
| 39 | x27 | 71 | x47 | 104 | x68 | 138 | x8A | 189 | xBD | 218 | xDA | 252 | xFC | | |
| 40 | x28 | 72 | x48 | 105 | x69 | 141 | x8D | | | 219 | xDB | 253 | xFD | | |
| 41 | x29 | 73 | x49 | 106 | x6A | 142 | x8E | | | 220 | xDC | 254 | xFE | | |
| 42 | x2A | 74 | x4A | 107 | x6B | 143 | x8F | | | 221 | xDD | 255 | xFF | | |
| | | 75 | x4B | 108 | x6C | | | | | 222 | xDE | | | | |

## Cyklop: CS-SC (CS TUG) encoding table

16 x10
17 x11
18 x12
19 x13
20 x14
21 x15
22 x16
23 x17
24 x18
25 x19
26 x1A
27 x1B
28 x1C
29 x1D
30 x1E
31 x1F
32 x20
33 x21
34 x22
35 x23

37 x25
38 x26
39 x27
40 x28
41 x29
42 x2A
43 x2B
44 x2C
45 x2D
46 x2E
47 x2F

48 x30
49 x31
50 x32
51 x33
52 x34
53 x35
54 x36
55 x37
56 x38
57 x39
58 x3A
59 x3B
60 x3C
61 x3D
62 x3E
63 x3F
64 x40
65 x41
66 x42
67 x43
68 x44
69 x45
70 x46
71 x47
72 x48
73 x49
74 x4A
75 x4B
76 x4C
77 x4D
78 x4E
79 x4F

80 x50
81 x51
82 x52
83 x53
84 x54
85 x55
86 x56
87 x57
88 x58
89 x59
90 x5A
91 x5B
92 x5C
93 x5D
94 x5E
95 x5F
96 x60
97 x61
98 x62
99 x63
100 x64
101 x65
102 x66
103 x67
104 x68
105 x69
106 x6A
107 x6B
108 x6C
109 x6D
110 x6E
111 x6F

112 x70
113 x71
114 x72
115 x73
116 x74
117 x75
118 x76
119 x77
120 x78
121 x79
122 x7A
123 x7B
124 x7C
125 x7D
126 x7E
127 x7F
128 x80
129 x81
130 x82
131 x83
132 x84
133 x85
134 x86

136 x88
137 x89
138 x8A

141 x8D
142 x8E
143 x8F

151 x97
152 x98

154 x9A

157 x9D
158 x9E
159 x9F

161 xA1

163 xA3
164 xA4
165 xA5
166 xA6
167 xA7

169 xA9
170 xAA
171 xAB
172 xAC

174 xAE
175 xAF
176 xB0
177 xB1

179 xB3

181 xB5
182 xB6

184 xB8
185 xB9
186 xBA
187 xBB
188 xBC
189 xBD
190 xBE

191 xBF
192 xC0
193 xC1
194 xC2
195 xC3
196 xC4
197 xC5
198 xC6
199 xC7
200 xC8
201 xC9
202 xCA
203 xCB
204 xCC
205 xCD
206 xCE
207 xCF
208 xD0
209 xD1
210 xD2
211 xD3
212 xD4
213 xD5
214 xD6
215 xD7
216 xD8
217 xD9
218 xDA
219 xDB
220 xDC
221 xDD
222 xDE

224 xE0
225 xE1
226 xE2
227 xE3
228 xE4
229 xE5
230 xE6
231 xE7
232 xE8
233 xE9
234 xEA
235 xEB
236 xEC
237 xED
238 xEE
239 xEF
240 xF0
241 xF1
242 xF2
243 xF3
244 xF4
245 xF5
246 xF6
247 xF7
248 xF8
249 xF9
250 xFA
251 xFB
252 xFC
253 xFD
254 xFE
255 xFF

## Cyklop: EC (Cork aka T1) encoding table

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | x00 | 39 | x27 | 75 | x4B | 111 | x6F | 148 | x94 | 184 | xB8 | 220 | xDC |
| 1 | x01 | 40 | x28 | 76 | x4C | 112 | x70 | 149 | x95 | 185 | xB9 | 221 | xDD |
| 2 | x02 | 41 | x29 | 77 | x4D | 113 | x71 | 150 | x96 | 186 | xBA | 222 | xDE |
| 3 | x03 | 42 | x2A | 78 | x4E | 114 | x72 | 151 | x97 | 187 | xBB | 223 | xDF |
| 4 | x04 | 43 | x2B | 79 | x4F | 115 | x73 | 152 | x98 | 188 | xBC | 224 | xE0 |
| 5 | x05 | 44 | x2C | 80 | x50 | 116 | x74 | 153 | x99 | 189 | xBD | 225 | xE1 |
| 6 | x06 | 45 | x2D | 81 | x51 | 117 | x75 | 154 | x9A | 190 | xBE | 226 | xE2 |
| 7 | x07 | 46 | x2E | 82 | x52 | 118 | x76 | 155 | x9B | 191 | xBF | 227 | xE3 |
| 8 | x08 | 47 | x2F | 83 | x53 | 119 | x77 | 156 | x9C | 192 | xC0 | 228 | xE4 |
| 9 | x09 | 48 | x30 | 84 | x54 | 120 | x78 | 157 | x9D | 193 | xC1 | 229 | xE5 |
| 10 | x0A | 49 | x31 | 85 | x55 | 121 | x79 | 158 | x9E | 194 | xC2 | 230 | xE6 |
| 11 | x0B | 50 | x32 | 86 | x56 | 122 | x7A | 159 | x9F | 195 | xC3 | 231 | xE7 |
| 12 | x0C | 51 | x33 | 87 | x57 | 123 | x7B | 160 | xA0 | 196 | xC4 | 232 | xE8 |
| 13 | x0D | 52 | x34 | 88 | x58 | 124 | x7C | 161 | xA1 | 197 | xC5 | 233 | xE9 |
| 14 | x0E | 53 | x35 | 89 | x59 | 125 | x7D | 162 | xA2 | 198 | xC6 | 234 | xEA |
| 15 | x0F | 54 | x36 | 90 | x5A | 126 | x7E | 163 | xA3 | 199 | xC7 | 235 | xEB |
| 16 | x10 | 55 | x37 | 91 | x5B | 128 | x80 | 164 | xA4 | 200 | xC8 | 236 | xEC |
| 17 | x11 | 56 | x38 | 92 | x5C | 129 | x81 | 165 | xA5 | 201 | xC9 | 237 | xED |
| 18 | x12 | 57 | x39 | 93 | x5D | 130 | x82 | 166 | xA6 | 202 | xCA | 238 | xEE |
| 19 | x13 | 58 | x3A | 94 | x5E | 131 | x83 | 167 | xA7 | 203 | xCB | 239 | xEF |
| 20 | x14 | 59 | x3B | 95 | x5F | 132 | x84 | 168 | xA8 | 204 | xCC | 240 | xF0 |
| 21 | x15 | 60 | x3C | 96 | x60 | 133 | x85 | 169 | xA9 | 205 | xCD | 241 | xF1 |
| 22 | x16 | 61 | x3D | 97 | x61 | 134 | x86 | 170 | xAA | 206 | xCE | 242 | xF2 |
| 25 | x19 | 62 | x3E | 98 | x62 | 135 | x87 | 171 | xAB | 207 | xCF | 243 | xF3 |
| 26 | x1A | 63 | x3F | 99 | x63 | 136 | x88 | 172 | xAC | 208 | xD0 | 244 | xF4 |
| 27 | x1B | 64 | x40 | 100 | x64 | 137 | x89 | 173 | xAD | 209 | xD1 | 245 | xF5 |
| 28 | x1C | 65 | x41 | 101 | x65 | 138 | x8A | 174 | xAE | 210 | xD2 | 246 | xF6 |
| 29 | x1D | 66 | x42 | 102 | x66 | 139 | x8B | 175 | xAF | 211 | xD3 | 247 | xF7 |
| 30 | x1E | 67 | x43 | 103 | x67 | 140 | x8C | 176 | xB0 | 212 | xD4 | 248 | xF8 |
| 31 | x1F | 68 | x44 | 104 | x68 | 141 | x8D | 177 | xB1 | 213 | xD5 | 249 | xF9 |
| 33 | x21 | 69 | x45 | 105 | x69 | 142 | x8E | 178 | xB2 | 214 | xD6 | 250 | xFA |
| 34 | x22 | 70 | x46 | 106 | x6A | 143 | x8F | 179 | xB3 | 215 | xD7 | 251 | xFB |
| 35 | x23 | 71 | x47 | 107 | x6B | 144 | x90 | 180 | xB4 | 216 | xD8 | 252 | xFC |
| 36 | x24 | 72 | x48 | 108 | x6C | 145 | x91 | 181 | xB5 | 217 | xD9 | 253 | xFD |
| 37 | x25 | 73 | x49 | 109 | x6D | 146 | x92 | 182 | xB6 | 218 | xDA | 254 | xFE |
| 38 | x26 | 74 | x4A | 110 | x6E | 147 | x93 | 183 | xB7 | 219 | xDB | 255 | xFF |

## Cyklop: EC-SC (Cork aka T1) encoding table

| | | |
|---|---|---|
| 0 x00 | 43 x2B | 79 x4F |
| 1 x01 | 44 x2C | 80 x50 |
| 2 x02 | 45 x2D | 81 x51 |
| 3 x03 | 46 x2E | 82 x52 |
| 4 x04 | 47 x2F | 83 x53 |
| 5 x05 | 48 x30 | 84 x54 |
| 6 x06 | 49 x31 | 85 x55 |
| 7 x07 | 50 x32 | 86 x56 |
| 8 x08 | 51 x33 | 87 x57 |
| 9 x09 | 52 x34 | 88 x58 |
| 10 x0A | 53 x35 | 89 x59 |
| 11 x0B | 54 x36 | 90 x5A |
| 12 x0C | 55 x37 | 91 x5B |
| 13 x0D | 56 x38 | 92 x5C |
| 14 x0E | 57 x39 | 93 x5D |
| 15 x0F | 58 x3A | 94 x5E |
| 16 x10 | 59 x3B | 95 x5F |
| 17 x11 | 60 x3C | 96 x60 |
| 18 x12 | 61 x3D | 97 x61 |
| 19 x13 | 62 x3E | 98 x62 |
| 20 x14 | 63 x3F | 99 x63 |
| 21 x15 | 64 x40 | 100 x64 |
| 22 x16 | 65 x41 | 101 x65 |
| | 66 x42 | 102 x66 |
| 25 x19 | 67 x43 | 103 x67 |
| 26 x1A | 68 x44 | 104 x68 |
| | 69 x45 | 105 x69 |
| 33 x21 | 70 x46 | 106 x6A |
| 34 x22 | 71 x47 | 107 x6B |
| 35 x23 | 72 x48 | 108 x6C |
| | 73 x49 | 109 x6D |
| 37 x25 | 74 x4A | 110 x6E |
| 38 x26 | 75 x4B | 111 x6F |
| 39 x27 | 76 x4C | 112 x70 |
| 40 x28 | 77 x4D | 113 x71 |
| 41 x29 | 78 x4E | 114 x72 |
| 42 x2A | | |

| | | |
|---|---|---|
| 115 x73 | 151 x97 | 187 xBB |
| 116 x74 | 152 x98 | 188 xBC |
| 117 x75 | 153 x99 | 189 xBD |
| 118 x76 | 154 x9A | 190 xBE |
| 119 x77 | 155 x9B | 191 xBF |
| 120 x78 | 156 x9C | 192 xC0 |
| 121 x79 | 157 x9D | 193 xC1 |
| 122 x7A | 158 x9E | 194 xC2 |
| 123 x7B | 159 x9F | 195 xC3 |
| 124 x7C | 160 xA0 | 196 xC4 |
| 125 x7D | 161 xA1 | 197 xC5 |
| 126 x7E | 162 xA2 | 198 xC6 |
| | 163 xA3 | 199 xC7 |
| 128 x80 | 164 xA4 | 200 xC8 |
| 129 x81 | 165 xA5 | 201 xC9 |
| 130 x82 | 166 xA6 | 202 xCA |
| 131 x83 | 167 xA7 | 203 xCB |
| 132 x84 | 168 xA8 | 204 xCC |
| 133 x85 | 169 xA9 | 205 xCD |
| 134 x86 | 170 xAA | 206 xCE |
| 135 x87 | 171 xAB | 207 xCF |
| 136 x88 | 172 xAC | 208 xD0 |
| 137 x89 | 173 xAD | 209 xD1 |
| 138 x8A | 174 xAE | 210 xD2 |
| 139 x8B | 175 xAF | 211 xD3 |
| 140 x8C | 176 xB0 | 212 xD4 |
| 141 x8D | 177 xB1 | 213 xD5 |
| 142 x8E | 178 xB2 | 214 xD6 |
| 143 x8F | 179 xB3 | 215 xD7 |
| 144 x90 | 180 xB4 | 216 xD8 |
| 145 x91 | 181 xB5 | 217 xD9 |
| 146 x92 | 182 xB6 | 218 xDA |
| 147 x93 | 183 xB7 | 219 xDB |
| 148 x94 | 184 xB8 | 220 xDC |
| 149 x95 | 185 xB9 | 221 xDD |
| 150 x96 | 186 xBA | 222 xDE |

| |
|---|
| 223 xDF |
| 224 xE0 |
| 225 xE1 |
| 226 xE2 |
| 227 xE3 |
| 228 xE4 |
| 229 xE5 |
| 230 xE6 |
| 231 xE7 |
| 232 xE8 |
| 233 xE9 |
| 234 xEA |
| 235 xEB |
| 236 xEC |
| 237 xED |
| 238 xEE |
| 239 xEF |
| 240 xF0 |
| 241 xF1 |
| 242 xF2 |
| 243 xF3 |
| 244 xF4 |
| 245 xF5 |
| 246 xF6 |
| 247 xF7 |
| 248 xF8 |
| 249 xF9 |
| 250 xFA |
| 251 xFB |
| 252 xFC |
| 253 xFD |
| 254 xFE |
| 255 xFF |

## Cyklop: L7X (Lithuanian) encoding table

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 0 x00 | 34 x22 | 67 x43 | 100 x64 | | 191 xBF | 224 xE0 |
| 1 x01 | 35 x23 | 68 x44 | 101 x65 | 137 x89 | 192 xC0 | 225 xE1 |
| 2 x02 | 36 x24 | 69 x45 | 102 x66 | 140 x8C | 193 xC1 | 226 xE2 |
| 3 x03 | 37 x25 | 70 x46 | 103 x67 | | 194 xC2 | 227 xE3 |
| 4 x04 | 38 x26 | 71 x47 | 104 x68 | 149 x95 | 195 xC3 | 228 xE4 |
| 5 x05 | 39 x27 | 72 x48 | 105 x69 | 153 x99 | 196 xC4 | 229 xE5 |
| 6 x06 | 40 x28 | 73 x49 | 106 x6A | 156 x9C | 197 xC5 | 230 xE6 |
| 7 x07 | 41 x29 | 74 x4A | 107 x6B | | 198 xC6 | 231 xE7 |
| 8 x08 | 42 x2A | 75 x4B | 108 x6C | 160 xA0 | 199 xC7 | 232 xE8 |
| 9 x09 | 43 x2B | 76 x4C | 109 x6D | 162 xA2 | 200 xC8 | 233 xE9 |
| 10 x0A | 44 x2C | 77 x4D | 110 x6E | 163 xA3 | 201 xC9 | 234 xEA |
| 11 x0B | 45 x2D | 78 x4E | 111 x6F | 164 xA4 | 202 xCA | 235 xEB |
| 12 x0C | 46 x2E | 79 x4F | 112 x70 | 166 xA6 | 203 xCB | 236 xEC |
| 13 x0D | 47 x2F | 80 x50 | 113 x71 | 167 xA7 | 204 xCC | 237 xED |
| 14 x0E | 48 x30 | 81 x51 | 114 x72 | 168 xA8 | 205 xCD | 238 xEE |
| 15 x0F | 49 x31 | 82 x52 | 115 x73 | 169 xA9 | 206 xCE | 239 xEF |
| 16 x10 | 50 x32 | 83 x53 | 116 x74 | 170 xAA | 207 xCF | 240 xF0 |
| 17 x11 | 51 x33 | 84 x54 | 117 x75 | | 208 xD0 | 241 xF1 |
| 18 x12 | 52 x34 | 85 x55 | 118 x76 | 172 xAC | 209 xD1 | 242 xF2 |
| 19 x13 | 53 x35 | 86 x56 | 119 x77 | | 210 xD2 | 243 xF3 |
| 20 x14 | 54 x36 | 87 x57 | 120 x78 | 174 xAE | 211 xD3 | 244 xF4 |
| 21 x15 | 55 x37 | 88 x58 | 121 x79 | 175 xAF | 212 xD4 | 245 xF5 |
| 22 x16 | 56 x38 | 89 x59 | 122 x7A | 176 xB0 | 213 xD5 | 246 xF6 |
| | 57 x39 | 90 x5A | 123 x7B | 177 xB1 | 214 xD6 | 247 xF7 |
| 25 x19 | 58 x3A | 91 x5B | 124 x7C | | 215 xD7 | 248 xF8 |
| 26 x1A | 59 x3B | 92 x5C | 125 x7D | 181 xB5 | 216 xD8 | 249 xF9 |
| 27 x1B | 60 x3C | 93 x5D | 126 x7E | 182 xB6 | 217 xD9 | 250 xFA |
| 28 x1C | 61 x3D | 94 x5E | | 183 xB7 | 218 xDA | 251 xFB |
| 29 x1D | 62 x3E | 95 x5F | 128 x80 | 184 xB8 | 219 xDB | 252 xFC |
| 30 x1E | 63 x3F | 96 x60 | | 186 xBA | 220 xDC | 253 xFD |
| 31 x1F | 64 x40 | 97 x61 | 131 x83 | | 221 xDD | 254 xFE |
| 32 x20 | 65 x41 | 98 x62 | | 188 xBC | 222 xDE | |
| 33 x21 | 66 x42 | 99 x63 | 133 x85 | 189 xBD | 223 xDF | |
| | | | 134 x86 | 190 xBE | | |
| | | | 135 x87 | | | |

## Cyklop: L7X-SC (Lithuanian) encoding table

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 0 x00 | 39 x27 | 71 x47 | 103 x67 | 140 x8C | 193 xC1 | 225 xE1 | |
| 1 x01 | 40 x28 | 72 x48 | 104 x68 | 149 x95 | 194 xC2 | 226 xE2 | |
| 2 x02 | 41 x29 | 73 x49 | 105 x69 | | 195 xC3 | 227 xE3 | |
| 3 x03 | 42 x2A | 74 x4A | 106 x6A | 153 x99 | 196 xC4 | 228 xE4 | |
| 4 x04 | 43 x2B | 75 x4B | 107 x6B | 156 x9C | 197 xC5 | 229 xE5 | |
| 5 x05 | 44 x2C | 76 x4C | 108 x6C | | 198 xC6 | 230 xE6 | |
| 6 x06 | 45 x2D | 77 x4D | 109 x6D | 160 xA0 | 199 xC7 | 231 xE7 | |
| 7 x07 | 46 x2E | 78 x4E | 110 x6E | 163 xA3 | 200 xC8 | 232 xE8 | |
| 8 x08 | 47 x2F | 79 x4F | 111 x6F | 164 xA4 | 201 xC9 | 233 xE9 | |
| 9 x09 | 48 x30 | 80 x50 | 112 x70 | | 202 xCA | 234 xEA | |
| 10 x0A | 49 x31 | 81 x51 | 113 x71 | 166 xA6 | 203 xCB | 235 xEB | |
| 11 x0B | 50 x32 | 82 x52 | 114 x72 | 167 xA7 | 204 xCC | 236 xEC | |
| 12 x0C | 51 x33 | 83 x53 | 115 x73 | 168 xA8 | 205 xCD | 237 xED | |
| 13 x0D | 52 x34 | 84 x54 | 116 x74 | 169 xA9 | 206 xCE | 238 xEE | |
| 14 x0E | 53 x35 | 85 x55 | 117 x75 | 170 xAA | 207 xCF | 239 xEF | |
| 15 x0F | 54 x36 | 86 x56 | 118 x76 | | 208 xD0 | 240 xF0 | |
| 16 x10 | 55 x37 | 87 x57 | 119 x77 | 172 xAC | 209 xD1 | 241 xF1 | |
| 17 x11 | 56 x38 | 88 x58 | 120 x78 | 174 xAE | 210 xD2 | 242 xF2 | |
| 18 x12 | 57 x39 | 89 x59 | 121 x79 | 175 xAF | 211 xD3 | 243 xF3 | |
| 19 x13 | 58 x3A | 90 x5A | 122 x7A | 176 xB0 | 212 xD4 | 244 xF4 | |
| 20 x14 | 59 x3B | 91 x5B | 123 x7B | 177 xB1 | 213 xD5 | 245 xF5 | |
| 21 x15 | 60 x3C | 92 x5C | 124 x7C | | 214 xD6 | 246 xF6 | |
| 22 x16 | 61 x3D | 93 x5D | 125 x7D | 181 xB5 | 215 xD7 | 247 xF7 | |
| | 62 x3E | 94 x5E | 126 x7E | 182 xB6 | 216 xD8 | 248 xF8 | |
| 25 x19 | 63 x3F | 95 x5F | | 183 xB7 | 217 xD9 | 249 xF9 | |
| 26 x1A | 64 x40 | 96 x60 | 128 x80 | 184 xB8 | 218 xDA | 250 xFA | |
| | 65 x41 | 97 x61 | | 186 xBA | 219 xDB | 251 xFB | |
| 32 x20 | 66 x42 | 98 x62 | 131 x83 | | 220 xDC | 252 xFC | |
| 33 x21 | 67 x43 | 99 x63 | | 188 xBC | 221 xDD | 253 xFD | |
| 34 x22 | 68 x44 | 100 x64 | 133 x85 | 189 xBD | 222 xDE | 254 xFE | |
| 35 x23 | | | 134 x86 | 190 xBE | 223 xDF | | |
| | 69 x45 | 101 x65 | 135 x87 | 191 xBF | 224 xE0 | | |
| 37 x25 | 70 x46 | 102 x66 | | 192 xC0 | | | |
| 38 x26 | | | 137 x89 | | | | |

## Cyklop: QX (GUST) encoding table

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7 | x07 | μ | 43 | x2B | + | 78 | x4E | N | 113 | x71 | q | 150 | x96 | ˛ | 186 | xBA | ž | 221 | xDD | Ý |
| 8 | x08 | … | 44 | x2C | , | 79 | x4F | O | 114 | x72 | r | 151 | x97 | Ų | 187 | xBB | ź | 222 | xDE | Þ |
| 9 | x09 | fk | 45 | x2D | - | 80 | x50 | P | 115 | x73 | s | 152 | x98 | Ÿ | 188 | xBC | ij | 223 | xDF | ‖ |
| | | | 46 | x2E | . | 81 | x51 | Q | 116 | x74 | t | 153 | x99 | Ź | 189 | xBD | • | 224 | xE0 | à |
| 11 | x0B | ff | 47 | x2F | / | 82 | x52 | R | 117 | x75 | u | 154 | x9A | Ž | 190 | xBE | " | 225 | xE1 | á |
| 12 | x0C | fi | 48 | x30 | 0 | 83 | x53 | S | 118 | x76 | v | 155 | x9B | Ż | 191 | xBF | ' | 226 | xE2 | â |
| 13 | x0D | fl | 49 | x31 | 1 | 84 | x54 | T | 119 | x77 | w | 156 | x9C | IJ | 192 | xC0 | À | 227 | xE3 | ã |
| 14 | x0E | ffi | 50 | x32 | 2 | 85 | x55 | U | 120 | x78 | x | 157 | x9D | { | 193 | xC1 | Á | 228 | xE4 | ä |
| 15 | x0F | ffl | 51 | x33 | 3 | 86 | x56 | V | 121 | x79 | y | 158 | x9E | } | 194 | xC2 | Â | 229 | xE5 | å |
| 16 | x10 | ı | 52 | x34 | 4 | 87 | x57 | W | 122 | x7A | z | 159 | x9F | ß | 195 | xC3 | Ã | 230 | xE6 | ␣ |
| 17 | x11 | ȷ | 53 | x35 | 5 | 88 | x58 | X | 123 | x7B | – | | | | 196 | xC4 | Ä | 231 | xE7 | ç |
| 18 | x12 | ˝ | 54 | x36 | 6 | 89 | x59 | Y | 124 | x7C | — | 161 | xA1 | ą | 197 | xC5 | Å | 232 | xE8 | è |
| 19 | x13 | ˛ | 55 | x37 | 7 | 90 | x5A | Z | 125 | x7D | ˝ | 162 | xA2 | ć | 198 | xC6 | \ | 233 | xE9 | é |
| 20 | x14 | ˇ | 56 | x38 | 8 | 91 | x5B | [ | 126 | x7E | ˜ | 163 | xA3 | ® | 199 | xC7 | Ç | 234 | xEA | ê |
| 21 | x15 | ˘ | 57 | x39 | 9 | 92 | x5C | “ | 127 | x7F | ¨ | 164 | xA4 | © | 200 | xC8 | È | 235 | xEB | ë |
| 22 | x16 | ¯ | 58 | x3A | : | 93 | x5D | ] | 128 | x80 | € | 165 | xA5 | ÷ | 201 | xC9 | É | 236 | xEC | ì |
| 23 | x17 | ° | 59 | x3B | ; | 94 | x5E | ˆ | 129 | x81 | Ą | 166 | xA6 | ę | 202 | xCA | Ê | 237 | xED | í |
| 24 | x18 | ¸ | 60 | x3C | ¡ | 95 | x5F | ˙ | 130 | x82 | Ć | 167 | xA7 | ı | 203 | xCB | Ë | 238 | xEE | î |
| 25 | x19 | ß | 61 | x3D | = | 96 | x60 | ‘ | 131 | x83 | ˇ | 168 | xA8 | ł | 204 | xCC | Ì | 239 | xEF | ï |
| 26 | x1A | œ | 62 | x3E | ¿ | 97 | x61 | a | 132 | x84 | ˛ | 169 | xA9 | × | 205 | xCD | Í | 240 | xF0 | ð |
| 27 | x1B | œ | 63 | x3F | ? | 98 | x62 | b | | | | 170 | xAA | ſ | 206 | xCE | Î | 241 | xF1 | ñ |
| 28 | x1C | ø | 64 | x40 | @ | 99 | x63 | c | 134 | x86 | Ę | 171 | xAB | ń | 207 | xCF | Ï | 242 | xF2 | ò |
| 29 | x1D | Æ | 65 | x41 | A | 100 | x64 | d | 135 | x87 | ł | 172 | xAC | ± | 208 | xD0 | Đ | 243 | xF3 | ó |
| 30 | x1E | Œ | 66 | x42 | B | 101 | x65 | e | 136 | x88 | < | | | | 209 | xD1 | Ñ | 244 | xF4 | ô |
| 31 | x1F | Ø | 67 | x43 | C | 102 | x66 | f | 137 | x89 | ≤ | 174 | xAE | « | 210 | xD2 | Ò | 245 | xF5 | õ |
| 32 | x20 | | 68 | x44 | D | 103 | x67 | g | 138 | x8A | Ł | 175 | xAF | » | 211 | xD3 | Ó | 246 | xF6 | ö |
| 33 | x21 | ! | 69 | x45 | E | 104 | x68 | h | 139 | x8B | Ń | 176 | xB0 | ¶ | 212 | xD4 | Ô | 247 | xF7 | ÷ |
| 34 | x22 | ” | 70 | x46 | F | 105 | x69 | i | 140 | x8C | ~ | 177 | xB1 | ś | 213 | xD5 | Õ | 248 | xF8 | ø |
| 35 | x23 | # | 71 | x47 | G | 106 | x6A | j | 141 | x8D | ˆ | 178 | xB2 | š | 214 | xD6 | Ö | 249 | xF9 | ù |
| 36 | x24 | $ | 72 | x48 | H | 107 | x6B | k | | | | 179 | xB3 | ş | 215 | xD7 | ¤ | 250 | xFA | ú |
| 37 | x25 | % | 73 | x49 | I | 108 | x6C | l | 143 | x8F | ˚ | 180 | xB4 | ● | 216 | xD8 | ‰ | 251 | xFB | û |
| 38 | x26 | & | 74 | x4A | J | 109 | x6D | m | 144 | x90 | ˛ | 181 | xB5 | ţ | 217 | xD9 | Ù | 252 | xFC | ü |
| 39 | x27 | ’ | 75 | x4B | K | 110 | x6E | n | 145 | x91 | Ś | 182 | xB6 | ł | 218 | xDA | Ú | 253 | xFD | ý |
| 40 | x28 | ( | 76 | x4C | L | 111 | x6F | o | 146 | x92 | Š | 183 | xB7 | ų | 219 | xDB | Û | 254 | xFE | þ |
| 41 | x29 | ) | 77 | x4D | M | 112 | x70 | p | 147 | x93 | Ş | 184 | xB8 | ij | 220 | xDC | Ü | 255 | xFF | „ |
| 42 | x2A | * | | | | | | | 148 | x94 | ° | | | | | | | | | |
| | | | | | | | | | 149 | x95 | Ţ | 185 | xB9 | ź | | | | | | |

## Cyklop: QX-SC (GUST) encoding table

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7 | x07 | 48 | x30 | 82 | x52 | 116 | x74 | 152 | x98 | 188 | xBC | 222 | xDE |
| 8 | x08 | 49 | x31 | 83 | x53 | 117 | x75 | 153 | x99 | 189 | xBD | 223 | xDF |
| 16 | x10 | 50 | x32 | 84 | x54 | 118 | x76 | 154 | x9A | 190 | xBE | 224 | xE0 |
| 17 | x11 | 51 | x33 | 85 | x55 | 119 | x77 | 155 | x9B | 191 | xBF | 225 | xE1 |
| 18 | x12 | 52 | x34 | 86 | x56 | 120 | x78 | 156 | x9C | 192 | xC0 | 226 | xE2 |
| 19 | x13 | 53 | x35 | 87 | x57 | 121 | x79 | 157 | x9D | 193 | xC1 | 227 | xE3 |
| 20 | x14 | 54 | x36 | 88 | x58 | 122 | x7A | 158 | x9E | 194 | xC2 | 228 | xE4 |
| 21 | x15 | 55 | x37 | 89 | x59 | 123 | x7B | 159 | x9F | 195 | xC3 | 229 | xE5 |
| 22 | x16 | 56 | x38 | 90 | x5A | 124 | x7C | 161 | xA1 | 196 | xC4 | 230 | xE6 |
| 23 | x17 | 57 | x39 | 91 | x5B | 125 | x7D | 162 | xA2 | 197 | xC5 | 231 | xE7 |
| 24 | x18 | 58 | x3A | 92 | x5C | 126 | x7E | 163 | xA3 | 198 | xC6 | 232 | xE8 |
| 25 | x19 | 59 | x3B | 93 | x5D | 127 | x7F | 164 | xA4 | 199 | xC7 | 233 | xE9 |
| 26 | x1A | 60 | x3C | 94 | x5E | 128 | x80 | 165 | xA5 | 200 | xC8 | 234 | xEA |
| 27 | x1B | 61 | x3D | 95 | x5F | 129 | x81 | 166 | xA6 | 201 | xC9 | 235 | xEB |
| 28 | x1C | 62 | x3E | 96 | x60 | 130 | x82 | 167 | xA7 | 202 | xCA | 236 | xEC |
| 29 | x1D | 63 | x3F | 97 | x61 | 131 | x83 | 168 | xA8 | 203 | xCB | 237 | xED |
| 30 | x1E | 64 | x40 | 98 | x62 | 132 | x84 | 169 | xA9 | 204 | xCC | 238 | xEE |
| 31 | x1F | 65 | x41 | 99 | x63 | 134 | x86 | 170 | xAA | 205 | xCD | 239 | xEF |
| 32 | x20 | 66 | x42 | 100 | x64 | 135 | x87 | 171 | xAB | 206 | xCE | 240 | xF0 |
| 33 | x21 | 67 | x43 | 101 | x65 | 136 | x88 | 172 | xAC | 207 | xCF | 241 | xF1 |
| 34 | x22 | 68 | x44 | 102 | x66 | 137 | x89 | 174 | xAE | 208 | xD0 | 242 | xF2 |
| 35 | x23 | 69 | x45 | 103 | x67 | 138 | x8A | 175 | xAF | 209 | xD1 | 243 | xF3 |
| 37 | x25 | 70 | x46 | 104 | x68 | 139 | x8B | 176 | xB0 | 210 | xD2 | 244 | xF4 |
| 38 | x26 | 71 | x47 | 105 | x69 | 140 | x8C | 177 | xB1 | 211 | xD3 | 245 | xF5 |
| 39 | x27 | 72 | x48 | 106 | x6A | 141 | x8D | 178 | xB2 | 212 | xD4 | 246 | xF6 |
| 40 | x28 | 73 | x49 | 107 | x6B | 143 | x8F | 179 | xB3 | 213 | xD5 | 247 | xF7 |
| 41 | x29 | 74 | x4A | 108 | x6C | 144 | x90 | 180 | xB4 | 214 | xD6 | 248 | xF8 |
| 42 | x2A | 75 | x4B | 109 | x6D | 145 | x91 | 181 | xB5 | 215 | xD7 | 249 | xF9 |
| 43 | x2B | 76 | x4C | 110 | x6E | 146 | x92 | 182 | xB6 | 216 | xD8 | 250 | xFA |
| 44 | x2C | 77 | x4D | 111 | x6F | 147 | x93 | 183 | xB7 | 217 | xD9 | 251 | xFB |
| 45 | x2D | 78 | x4E | 112 | x70 | 148 | x94 | 184 | xB8 | 218 | xDA | 252 | xFC |
| 46 | x2E | 79 | x4F | 113 | x71 | 149 | x95 | 185 | xB9 | 219 | xDB | 253 | xFD |
| 47 | x2F | 80 | x50 | 114 | x72 | 150 | x96 | 186 | xBA | 220 | xDC | 254 | xFE |
| | | 81 | x51 | 115 | x73 | 151 | x97 | 187 | xBB | 221 | xDD | 255 | xFF |

## Cyklop: T5 (Vietnamese) encoding table

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | x00 | 39 | x27 | 75 | x4B | 111 | x6F | 148 | x94 | 184 | xB8 | 220 | xDC |
| 1 | x01 | 40 | x28 | 76 | x4C | 112 | x70 | 149 | x95 | 185 | xB9 | 221 | xDD |
| 2 | x02 | 41 | x29 | 77 | x4D | 113 | x71 | 150 | x96 | 186 | xBA | 222 | xDE |
| 3 | x03 | 42 | x2A | 78 | x4E | 114 | x72 | 151 | x97 | 187 | xBB | 223 | xDF |
| 4 | x04 | 43 | x2B | 79 | x4F | 115 | x73 | 152 | x98 | 188 | xBC | 224 | xE0 |
| 5 | x05 | 44 | x2C | 80 | x50 | 116 | x74 | 153 | x99 | 189 | xBD | 225 | xE1 |
| 6 | x06 | 45 | x2D | 81 | x51 | 117 | x75 | 154 | x9A | 190 | xBE | 226 | xE2 |
| 7 | x07 | 46 | x2E | 82 | x52 | 118 | x76 | 155 | x9B | 191 | xBF | 227 | xE3 |
| 8 | x08 | 47 | x2F | 83 | x53 | 119 | x77 | 156 | x9C | 192 | xC0 | 228 | xE4 |
| 9 | x09 | 48 | x30 | 84 | x54 | 120 | x78 | 157 | x9D | 193 | xC1 | 229 | xE5 |
| 10 | x0A | 49 | x31 | 85 | x55 | 121 | x79 | 158 | x9E | 194 | xC2 | 230 | xE6 |
| 11 | x0B | 50 | x32 | 86 | x56 | 122 | x7A | 159 | x9F | 195 | xC3 | 231 | xE7 |
| 12 | x0C | 51 | x33 | 87 | x57 | 123 | x7B | 160 | xA0 | 196 | xC4 | 232 | xE8 |
| 13 | x0D | 52 | x34 | 88 | x58 | 124 | x7C | 161 | xA1 | 197 | xC5 | 233 | xE9 |
| 14 | x0E | 53 | x35 | 89 | x59 | 125 | x7D | 162 | xA2 | 198 | xC6 | 234 | xEA |
| 15 | x0F | 54 | x36 | 90 | x5A | 126 | x7E | 163 | xA3 | 199 | xC7 | 235 | xEB |
| 16 | x10 | 55 | x37 | 91 | x5B | 128 | x80 | 164 | xA4 | 200 | xC8 | 236 | xEC |
| 17 | x11 | 56 | x38 | 92 | x5C | 129 | x81 | 165 | xA5 | 201 | xC9 | 237 | xED |
| 18 | x12 | 57 | x39 | 93 | x5D | 130 | x82 | 166 | xA6 | 202 | xCA | 238 | xEE |
| 19 | x13 | 58 | x3A | 94 | x5E | 131 | x83 | 167 | xA7 | 203 | xCB | 239 | xEF |
| 20 | x14 | 59 | x3B | 95 | x5F | 132 | x84 | 168 | xA8 | 204 | xCC | 240 | xF0 |
| 21 | x15 | 60 | x3C | 96 | x60 | 133 | x85 | 169 | xA9 | 205 | xCD | 241 | xF1 |
| 22 | x16 | 61 | x3D | 97 | x61 | 134 | x86 | 170 | xAA | 206 | xCE | 242 | xF2 |
| 25 | x19 | 62 | x3E | 98 | x62 | 135 | x87 | 171 | xAB | 207 | xCF | 243 | xF3 |
| 26 | x1A | 63 | x3F | 99 | x63 | 136 | x88 | 172 | xAC | 208 | xD0 | 244 | xF4 |
| 27 | x1B | 64 | x40 | 100 | x64 | 137 | x89 | 173 | xAD | 209 | xD1 | 245 | xF5 |
| 28 | x1C | 65 | x41 | 101 | x65 | 138 | x8A | 174 | xAE | 210 | xD2 | 246 | xF6 |
| 29 | x1D | 66 | x42 | 102 | x66 | 139 | x8B | 175 | xAF | 211 | xD3 | 247 | xF7 |
| 30 | x1E | 67 | x43 | 103 | x67 | 140 | x8C | 176 | xB0 | 212 | xD4 | 248 | xF8 |
| 31 | x1F | 68 | x44 | 104 | x68 | 141 | x8D | 177 | xB1 | 213 | xD5 | 249 | xF9 |
| 33 | x21 | 69 | x45 | 105 | x69 | 142 | x8E | 178 | xB2 | 214 | xD6 | 250 | xFA |
| 34 | x22 | 70 | x46 | 106 | x6A | 143 | x8F | 179 | xB3 | 215 | xD7 | 251 | xFB |
| 35 | x23 | 71 | x47 | 107 | x6B | 144 | x90 | 180 | xB4 | 216 | xD8 | 252 | xFC |
| 36 | x24 | 72 | x48 | 108 | x6C | 145 | x91 | 181 | xB5 | 217 | xD9 | 253 | xFD |
| 37 | x25 | 73 | x49 | 109 | x6D | 146 | x92 | 182 | xB6 | 218 | xDA | 254 | xFE |
| 38 | x26 | 74 | x4A | 110 | x6E | 147 | x93 | 183 | xB7 | 219 | xDB | 255 | xFF |

## Cyklop: T5-SC (Vietnamese) encoding table

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | x00 | 39 | x27 | 75 | x4B | 111 | x6F | 148 | x94 | 184 | xB8 | 220 | xDC |
| 1 | x01 | 40 | x28 | 76 | x4C | 112 | x70 | 149 | x95 | 185 | xB9 | 221 | xDD |
| 2 | x02 | 41 | x29 | 77 | x4D | 113 | x71 | 150 | x96 | 186 | xBA | 222 | xDE |
| 3 | x03 | 42 | x2A | 78 | x4E | 114 | x72 | 151 | x97 | 187 | xBB | 223 | xDF |
| 4 | x04 | 43 | x2B | 79 | x4F | 115 | x73 | 152 | x98 | 188 | xBC | 224 | xE0 |
| 5 | x05 | 44 | x2C | 80 | x50 | 116 | x74 | 153 | x99 | 189 | xBD | 225 | xE1 |
| 6 | x06 | 45 | x2D | 81 | x51 | 117 | x75 | 154 | x9A | 190 | xBE | 226 | xE2 |
| 7 | x07 | 46 | x2E | 82 | x52 | 118 | x76 | 155 | x9B | 191 | xBF | 227 | xE3 |
| 8 | x08 | 47 | x2F | 83 | x53 | 119 | x77 | 156 | x9C | 192 | xC0 | 228 | xE4 |
| 9 | x09 | 48 | x30 | 84 | x54 | 120 | x78 | 157 | x9D | 193 | xC1 | 229 | xE5 |
| 10 | x0A | 49 | x31 | 85 | x55 | 121 | x79 | 158 | x9E | 194 | xC2 | 230 | xE6 |
| 11 | x0B | 50 | x32 | 86 | x56 | 122 | x7A | 159 | x9F | 195 | xC3 | 231 | xE7 |
| 12 | x0C | 51 | x33 | 87 | x57 | 123 | x7B | 160 | xA0 | 196 | xC4 | 232 | xE8 |
| 13 | x0D | 52 | x34 | 88 | x58 | 124 | x7C | 161 | xA1 | 197 | xC5 | 233 | xE9 |
| 14 | x0E | 53 | x35 | 89 | x59 | 125 | x7D | 162 | xA2 | 198 | xC6 | 234 | xEA |
| 15 | x0F | 54 | x36 | 90 | x5A | 126 | x7E | 163 | xA3 | 199 | xC7 | 235 | xEB |
| 16 | x10 | 55 | x37 | 91 | x5B | | | 164 | xA4 | 200 | xC8 | 236 | xEC |
| 17 | x11 | 56 | x38 | 92 | x5C | 128 | x80 | 165 | xA5 | 201 | xC9 | 237 | xED |
| 18 | x12 | 57 | x39 | 93 | x5D | 129 | x81 | 166 | xA6 | 202 | xCA | 238 | xEE |
| 19 | x13 | 58 | x3A | 94 | x5E | 130 | x82 | 167 | xA7 | 203 | xCB | 239 | xEF |
| 20 | x14 | 59 | x3B | 95 | x5F | 131 | x83 | 168 | xA8 | 204 | xCC | 240 | xF0 |
| 21 | x15 | 60 | x3C | 96 | x60 | 132 | x84 | 169 | xA9 | 205 | xCD | 241 | xF1 |
| 22 | x16 | 61 | x3D | 97 | x61 | 133 | x85 | 170 | xAA | 206 | xCE | 242 | xF2 |
| | | 62 | x3E | 98 | x62 | 134 | x86 | 171 | xAB | 207 | xCF | 243 | xF3 |
| 25 | x19 | 63 | x3F | 99 | x63 | 135 | x87 | 172 | xAC | 208 | xD0 | 244 | xF4 |
| 26 | x1A | 64 | x40 | 100 | x64 | 136 | x88 | 173 | xAD | 209 | xD1 | 245 | xF5 |
| 27 | x1B | 65 | x41 | 101 | x65 | 137 | x89 | 174 | xAE | 210 | xD2 | 246 | xF6 |
| 28 | x1C | 66 | x42 | 102 | x66 | 138 | x8A | 175 | xAF | 211 | xD3 | 247 | xF7 |
| 29 | x1D | 67 | x43 | 103 | x67 | 139 | x8B | 176 | xB0 | 212 | xD4 | 248 | xF8 |
| 30 | x1E | 68 | x44 | 104 | x68 | 140 | x8C | 177 | xB1 | 213 | xD5 | 249 | xF9 |
| 31 | x1F | 69 | x45 | 105 | x69 | 141 | x8D | 178 | xB2 | 214 | xD6 | 250 | xFA |
| | | 70 | x46 | 106 | x6A | 142 | x8E | 179 | xB3 | 215 | xD7 | 251 | xFB |
| 33 | x21 | 71 | x47 | 107 | x6B | 143 | x8F | 180 | xB4 | 216 | xD8 | 252 | xFC |
| 34 | x22 | 72 | x48 | 108 | x6C | 144 | x90 | 181 | xB5 | 217 | xD9 | 253 | xFD |
| 35 | x23 | 73 | x49 | 109 | x6D | 145 | x91 | 182 | xB6 | 218 | xDA | 254 | xFE |
| | | 74 | x4A | 110 | x6E | 146 | x92 | 183 | xB7 | 219 | xDB | 255 | xFF |
| 37 | x25 | | | | | 147 | x93 | | | | | | |
| 38 | x26 | | | | | | | | | | | | |