Network Working Group Request for Comments: 1489 A. Chernov RELCOM Development Team July 1993

Registration of a Cyrillic Character Set

## Status of this Memo

This memo provides information for the Internet community. It does not specify an Internet standard. Distribution of this memo is unlimited.

## Introduction

Though the proposed character set "koi8-r" is not currently an international standard, there is very large user community (including Relcom Net) supporting it. Factually, "koi8-r" is de-facto standard for Unix and global network applications in the former Soviet Union. This is the reason the Society of Unix User Groups (SUUG) believes "koi8-r" should be registered.

MIME character set name: koi8-r

Published specification: This standard is unpublished, but based on several published standards: GOST 19768-74 (old-koi8), ISO 6937/8 (not registered) and variations: INIS-cyrillic, ISO 5427.

C language coding table from koi8-r to Unicode (ISO 10646) for the upper half of the code table (the lower half of the table is fully coinciding with ASCII character set)

```
unsigned short koi82unicode[128] = {
  0x2500,0x2502,0x250c,0x2510,0x2514,0x2518,0x251c,0x2524,
  0x252c,0x2534,0x253c,0x2580,0x2584,0x2588,0x258c,0x2590,
  0x2591,0x2592,0x2593,0x2320,0x25a0,0x2219,0x221a,0x2248,
  0x2264,0x2265,0x00a0,0x2321,0x00b0,0x00b2,0x00b7,0x00f7,
  0x2550,0x2551,0x2552,0x0451,0x2553,0x2554,0x2555,0x2556,
  0x2557,0x2558,0x2559,0x255a,0x255b,0x255c,0x255d,0x255e,
  0x255f,0x2560,0x2561,0x0401,0x2562,0x2563,0x2564,0x2565,
  0x2566,0x2567,0x2568,0x2569,0x256a,0x256b,0x256c,0x00a9,
  0x044e, 0x0430, 0x0431, 0x0446, 0x0434, 0x0435, 0x0444, 0x0433,
  0 \times 0445, 0 \times 0438, 0 \times 0439, 0 \times 043a, 0 \times 043b, 0 \times 043c, 0 \times 043d, 0 \times 043e,
  0x043f, 0x044f, 0x0440, 0x0441, 0x0442, 0x0443, 0x0436, 0x0432,
  0 \times 044 c, 0 \times 044 b, 0 \times 0437, 0 \times 0448, 0 \times 044 d, 0 \times 0449, 0 \times 0447, 0 \times 044 a,
  0 \times 042 = 0 \times 0410, 0 \times 0411, 0 \times 0426, 0 \times 0414, 0 \times 0415, 0 \times 0424, 0 \times 0413,
  0 \times 0425, 0 \times 0418, 0 \times 0419, 0 \times 041a, 0 \times 041b, 0 \times 041c, 0 \times 041d, 0 \times 041e,
  0x041f, 0x042f, 0x0420, 0x0421, 0x0422, 0x0423, 0x0416, 0x0412,
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0x042c,0x042b,0x0417,0x0428,0x042d,0x0429,0x0427,0x042a
};
______
The description of all characters from the upper half of the table
in compliance with ISO 10646 (Unicode)
<hex-code> <description>
80 FORMS LIGHT HORIZONTAL
81 FORMS LIGHT VERTICAL
82 FORMS LIGHT DOWN AND RIGHT
83 FORMS LIGHT DOWN AND LEFT
84 FORMS LIGHT UP AND RIGHT
85 FORMS LIGHT UP AND LEFT
86 FORMS LIGHT VERTICAL AND RIGHT
87 FORMS LIGHT VERTICAL AND LEFT
88 FORMS LIGHT DOWN AND HORIZONTAL
89 FORMS LIGHT UP AND HORIZONTAL
8A FORMS LIGHT VERTICAL AND HORIZONTAL
8B UPPER HALF BLOCK
8C LOWER HALF BLOCK
8D FULL BLOCK
8E LEFT HALF BLOCK
8F RIGHT HALF BLOCK
90 LIGHT SHADE
91 MEDIUM SHADE
92 DARK SHADE
93 TOP HALF INTEGRAL
94 BLACK SMALL SQUARE
95 BULLET OPERATOR
96 SQUARE ROOT
97 ALMOST EQUAL TO
98 LESS THAN OR EQUAL TO
99 GREATER THAN OR EQUAL TO
9A NON-BREAKING SPACE
9B BOTTOM HALF INTEGRAL
9C DEGREE SIGN
9D SUPERSCRIPT DIGIT TWO
9E MIDDLE DOT
9F DIVISION SIGN
AO FORMS DOUBLE HORIZONTAL
A1 FORMS DOUBLE VERTICAL
A2 FORMS DOWN SINGLE AND RIGHT DOUBLE
A3 CYRILLIC SMALL LETTER IO
A4 FORMS DOWN DOUBLE AND RIGHT SINGLE
A5 FORMS DOUBLE DOWN AND RIGHT
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A6 FORMS DOWN SINGLE AND LEFT DOUBLE
A7 FORMS DOWN DOUBLE AND LEFT SINGLE
A8 FORMS DOUBLE DOWN AND LEFT
A9 FORMS UP SINGLE AND RIGHT DOUBLE
AA FORMS UP DOUBLE AND RIGHT SINGLE
AB FORMS DOUBLE UP AND RIGHT
AC FORMS UP SINGLE AND LEFT DOUBLE
AD FORMS UP DOUBLE AND LEFT SINGLE
AE FORMS DOUBLE UP AND LEFT
AF FORMS VERTICAL SINGLE AND RIGHT DOUBLE
BO FORMS VERTICAL DOUBLE AND RIGHT SINGLE
B1 FORMS DOUBLE VERTICAL AND RIGHT
B2 FORMS VERTICAL SINGLE AND LEFT DOUBLE
B3 CYRILLIC CAPITAL LETTER IO
B4 FORMS VERTICAL DOUBLE AND LEFT SINGLE
B5 FORMS DOUBLE VERTICAL AND LEFT
   FORMS DOWN SINGLE AND HORIZONTAL DOUBLE
B7 FORMS DOWN DOUBLE AND HORIZONTAL SINGLE
B8 FORMS DOUBLE DOWN AND HORIZONTAL
B9 FORMS UP SINGLE AND HORIZONTAL DOUBLE
BA FORMS UP DOUBLE AND HORIZONTAL SINGLE
BB FORMS DOUBLE UP AND HORIZONTAL
BC FORMS VERTICAL SINGLE AND HORIZONTAL DOUBLE
BD FORMS VERTICAL DOUBLE AND HORIZONTAL SINGLE
BE FORMS DOUBLE VERTICAL AND HORIZONTAL
BF COPYRIGHT SIGN
CO CYRILLIC SMALL LETTER IU
C1 CYRILLIC SMALL LETTER A
C2 CYRILLIC SMALL LETTER BE
C3 CYRILLIC SMALL LETTER TSE
C4 CYRILLIC SMALL LETTER DE
C5 CYRILLIC SMALL LETTER IE
C6 CYRILLIC SMALL LETTER EF
   CYRILLIC SMALL LETTER GE
C8 CYRILLIC SMALL LETTER KHA
C9 CYRILLIC SMALL LETTER II
CA CYRILLIC SMALL LETTER SHORT II
CB CYRILLIC SMALL LETTER KA
CC CYRILLIC SMALL LETTER EL
CD CYRILLIC SMALL LETTER EM
CE CYRILLIC SMALL LETTER EN
CF CYRILLIC SMALL LETTER O
DO CYRILLIC SMALL LETTER PE
D1 CYRILLIC SMALL LETTER IA
D2 CYRILLIC SMALL LETTER ER
D3 CYRILLIC SMALL LETTER ES
D4 CYRILLIC SMALL LETTER TE
D5 CYRILLIC SMALL LETTER U
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D6 CYRILLIC SMALL LETTER ZHE
D7 CYRILLIC SMALL LETTER VE
D8 CYRILLIC SMALL LETTER SOFT SIGN
D9 CYRILLIC SMALL LETTER YERI
DA CYRILLIC SMALL LETTER ZE
DB CYRILLIC SMALL LETTER SHA
DC CYRILLIC SMALL LETTER REVERSED E
DD CYRILLIC SMALL LETTER SHCHA
DE CYRILLIC SMALL LETTER CHE
DF CYRILLIC SMALL LETTER HARD SIGN
EO CYRILLIC CAPITAL LETTER IU
E1 CYRILLIC CAPITAL LETTER A
E2 CYRILLIC CAPITAL LETTER BE
E3 CYRILLIC CAPITAL LETTER TSE
E4 CYRILLIC CAPITAL LETTER DE
E5 CYRILLIC CAPITAL LETTER IE
   CYRILLIC CAPITAL LETTER EF
E7 CYRILLIC CAPITAL LETTER GE
E8 CYRILLIC CAPITAL LETTER KHA
E9 CYRILLIC CAPITAL LETTER II
EA CYRILLIC CAPITAL LETTER SHORT II
EB CYRILLIC CAPITAL LETTER KA
EC CYRILLIC CAPITAL LETTER EL
ED CYRILLIC CAPITAL LETTER EM
EE CYRILLIC CAPITAL LETTER EN
EF CYRILLIC CAPITAL LETTER O
FO CYRILLIC CAPITAL LETTER PE
F1 CYRILLIC CAPITAL LETTER IA
F2 CYRILLIC CAPITAL LETTER ER
F3 CYRILLIC CAPITAL LETTER ES
F4 CYRILLIC CAPITAL LETTER TE
F5 CYRILLIC CAPITAL LETTER U
F6 CYRILLIC CAPITAL LETTER ZHE
   CYRILLIC CAPITAL LETTER VE
F8 CYRILLIC CAPITAL LETTER SOFT SIGN
F9 CYRILLIC CAPITAL LETTER YERI
FA CYRILLIC CAPITAL LETTER ZE
FB CYRILLIC CAPITAL LETTER SHA
FC CYRILLIC CAPITAL LETTER REVERSED E
FD CYRILLIC CAPITAL LETTER SHCHA
FE CYRILLIC CAPITAL LETTER CHE
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FF CYRILLIC CAPITAL LETTER HARD SIGN

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## Security Considerations

Security issues are not discussed in this memo.

## Author's Address

Andrew A. Chernov RELCOM Development Team Moscow, Russia

EMail: ache@astral.msk.su FIDOnet: 2:5020/23.34

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