

## 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Published specification: This standard is unpublished, but based on several published standards: GOST 19768-74 (old-koi8), ISO 6937/8 (not registered) and variations: INIS-cyrillic, ISO 5427.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,  
    0x0445,0x0438,0x0439,0x043a,0x043b,0x043c,0x043d,0x043e,  
    0x043f,0x044f,0x0440,0x0441,0x0442,0x0443,0x0436,0x0432,  
    0x044c,0x044b,0x0437,0x0448,0x044d,0x0449,0x0447,0x044a,  
    0x042e,0x0410,0x0411,0x0426,0x0414,0x0415,0x0424,0x0413,  
    0x0425,0x0418,0x0419,0x041a,0x041b,0x041c,0x041d,0x041e,  
    0x041f,0x042f,0x0420,0x0421,0x0422,0x0423,0x0416,0x0412,
```

```
0x042c,0x042b,0x0417,0x0428,0x042d,0x0429,0x0427,0x042a
};
```

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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
A0 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  
B0 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  
B6 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  
C0 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  
C7 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  
D0 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

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  
E0 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  
E6 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  
F0 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  
F7 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  
FF CYRILLIC CAPITAL LETTER HARD SIGN

Security Considerations

Security issues are not discussed in this memo.

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