                  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   Published specification: This standard is unpublished, but based on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
};
```

   ----------------------------------------------------------------------

   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
```

```
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.

Author's Address

    Andrew A. Chernov
    RELCOM Development Team
    Moscow, Russia

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