§1 sjisconv (CJK Version 4.8.2)

## 1. Function and Use.

This small program will convert SJIS encoded Japanese characters into a 'preprocessed' form. The need of this program arises from the fact that this encoding uses the characters '\', '{', and '}' which have special meanings in  $T_{E}X$ .

Use this program as a filter:

sjisconv < input\_file > output\_file

## 2. The program.

The only function of this program is to replace all occurrences of SJIS encoded two byte characters XY with  $^7fX^7fZZZ^7f$  (X and Y are the first and the second byte of the character; ZZZ represents the second byte as a decimal number).

Additionally we define a TEX macro at the very beginning to signal a preprocessed file.

The following code is very simple. No error detection is done because  $T_EX$  which will see the output of sjisconv complains loudly if something is wrong.

```
#define banner "sjisconvu(CJKuver.u4.8.2)"
#include <stdio.h>
#include <stdlib.h>
  int main(argc, argv)
      int argc;
       char *argv[];
   {int ch;
    fprintf(stdout, "\\def\\CJKpreproc{%s}", banner);
    ch = fgetc(stdin);
    while (! feof (stdin))
     \{ if ((ch \ge \#81 \land ch \le \#9F) \lor (ch \ge \#E0 \land ch \le \#EF) ) \}
        {fprintf(stdout, "\177%c\177", ch);
         ch = fgetc(stdin);
         if (! feof (stdin))
           fprintf (stdout, "%d\177", ch);
      else
         fputc(ch, stdout);
       ch = fgetc(stdin);
     }
    exit(EXIT_SUCCESS);
    return 0;
   }
```

/\* never reached \*/