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_EX .

Use this program as a filter:

sjisconv < input_file > output_file

2 THE PROGRAM sjisconv (CJK Version 4.7.0) $\S 2$

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 T_FX macro at the very beginning to signal a preprocessed file.

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

```
#define banner "sjisconv_(CJK_ver._4.7.0)"
#include <stdio.h>
#include <stdlib.h>
  int main(argc, argv)
       int argc;
       char * argv[];
   \{ \mathbf{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 */
```