1. Function and Use.

This small program will convert Big 5+ or GBK encoded Chinese characters into a 'preprocessed' form. The need of this program arises from the fact that these two encodings use the characters '\', ' $\{$ ', and ' $\}$ ' which have special meanings in T_EX .

Use this program as a filter:

extconv < input_file > output_file

2 THE PROGRAM extconv (CJK Version 4.8.2) $\S 2$

2. The program.

The only function of this program is to replace all occurrences of Big 5+ and GBK encoded characters XY (X and Y are the first and the second byte of the character) with ^^7fX^^7fZZZ^^7f, where ZZZ represents the second byte as a decimal number. 0x7F is used as an active character and delimiter.

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 TEX which will see the output of extconv complains loudly if something is wrong.

```
#define banner "extconv_(CJK_ver._4.8.2)"
#include <stdio.h>
#include <stdlib.h>
  int main(argc, argv)
       int argc;
       \mathbf{char} * argv[];
   \{ \mathbf{int} \ ch ; 
    fprintf(stdout, "\\def\\CJKpreproc{%s}", banner);
    ch = fgetc(stdin);
    while (! feof(stdin))
      {if (ch \ge {}^{\#}81 \land ch \le {}^{\#}FE)
        \{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 */
```