FUNCTION AND USE

Function and Use.

 $\S 1$

This small program will convert Big 5 encoded Chinese 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:

bg5conv < input_file > output_file

2 THE PROGRAM bg5conv (CJK Version 4.8.4) $\S 2$

2. The program.

The only function of this program is to replace all occurrences of Big 5 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 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 bg5conv complains loudly if something is wrong.

```
#define banner "bg5conv_(CJK_ver._4.8.4)"
#include <stdio.h>
#include <stdlib.h>
  int main(int argc, char *argv[])
   \{ \mathbf{int} \ ch ; 
    fprintf(stdout, "\\def\\CJKpreproc{%s}", banner);
    ch = fgetc(stdin);
    while (! feof(stdin))
     {if (ch \ge \#A1 \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 */
```