The XGP queuer accepts file commands, which specify a file to be
printed and optionally a font to be used. The general form is:

       :XGP [;file-command] [file-specification] [_ fonts-specification]

       :XGP .INFO.;DDT ORDER_20FG

;file-command

       ;PRINT   the default, which prints the text-file
       ;THESIS prints the text-file like ;PRINT but places the re-
                quest in the T queue, to be printed on Thesis forms.
       ;LIST   prints the text-file with default header (time, date,
                page number)
       ;PLOT   prints plot-file of coordinate positions
       ;SCAN   read XGP commands from scan-file

       Only one file may be explicitly specified in a file command.

_ fonts-specification

       Any number of font names or file-specifications delimited
       by commas that define the fonts to be used. Optional.

file-specification

       The normal ITS file name, which may be a text-file, plot-file,
       or scan-file. <device> defaults to local DSK: (i.e. if you are
       on MC, <device> defaults to MC:), <sname> defaults to your
       <msname> (i.e. the default <sname for the job). Required.

In general a file is printed as specified by the file-command using
the fonts-specification.

Status of XGP queue

The XGP^F command to DDT lists the status of the XGP queue. The index
number is the QIN(Queue Identification Number) of each request.
The QIN may be interpreted as follows:
       high order digit --> queue priorrity class, one of [T, 1, 2,
                or 3], where T is for ;THESIS requests, and 1, 2,
                and 3 refer to successively lower priority classes.
       low order digits --> position of that request in that queue.

Specification Commands

When XQUEUE is entered without any JCL, then specification commands may
be given, which apply to the next file command. Specifications are
reset after a file command to their default. After the initial "*" is
displayed, additional prompts are returned only after file commands.
Defaults are in brackets.

Input Editing Commands

^C   queue command if input buffer not empty, and commit suicide
^D   flush entire input buffer
^H   same as RUBOUT
^L   re-display the buffer
^M   terminate current line, and queue buffer if line was a file
           command (also clear buffer)

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^Q          quote the next character in a file specification
^R          re-display the current line
^U          kill currrent line


;AUTCUT n [1]    If n is nonzero, automatically cut between pages
;BOTMAR n [124] Use n points of bottom margin
;CANCEL qin      cancels the request if it has not already started
                 printing.  The qin may be obtained via XGP^F
;FFCUT n [0]     If n is nonzero, cut only on form feeds
;HEADER text     Use text as header
;HEIGHT          Type height of current font
;KSET font       Use font defined in file
;LFTMAR n [128] Use n points of left margin
;LIST file_font Print text file with default header (time, date, page
                 number)
;LSP n [31]      Use n ponts per line (includes font height and points
                 between lines)
;NLINES          Type number of lines per page
;PLOT file       print file containing coordinate positions
;PRINT file_font Print text file
;RESET           Reset value of commands to default
;ROTATE          Rotate bit map of points that are converted into scan
                 line
;SAMPLE font     Type the character set in font defined by file
;SCAN file       Read commands from file (allows a wildcard file speci-
                 fication)
;SIZE n [11]     Use page size of n inches
;SKIP n [0]      Skip n pages before printing
;SNDFNT          Send font to PDP-11
;SQUISH          Purge useless character from font
;TEST            Test XGP by sending a CONTROL-C and forcing the buffer
;THESIS file_font Prints the text-file like ;PRINT but places the
                 request in the T queue, to be printed on Thesis forms.
;TOPMAR n [128] Use n points of top margin
;TXTCMD n [-1]  If n is nonzero, read specification commands from text
                 file
;VSP n [6]       Use n points between lines
;X0 n [1100]     Use n as initial x-coordinate
;Y0 n [-180]     Use n as initial y-coordinate
```

Scan Line

The XGP uses a scan line averaging 200 points per inch, and is con-
trolled to also produce 200 points per inch vertically. The scan
line extends over the entire eight and one-half inch wide paper sup-
plied on 2000 foot rools.

Font Files

Both MIT and CMU font formats are accepted. The file .INFO.;FED ORDER
describes the FED program, which creates the font files.

XGP Console Commands

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^G          Current request stops printing.  Asks if request should be
            requeued.
^X          Enter maintenance mode, in which commands are accepted from
            the XGP console.  It is antisocial to use this mode for per-
            sonal usage since it disables spooling.
```

Maintenance Mode Commands

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;HELP     Type list of command on XGP console
;KILL     Kill XGP spooler (for debugging purposes only)
;SHOW     Type value of selected commands on the XGP console
;VERSE    Type name and version number of queuer on XGP console
```

Priority Algorithm

Priority for queued requests is determined on the basis of file
size and user group(the latter is an administrative decision; Bug-XGP
is NOT the place to complain about it). In the basic form,
files larger than 30 blocks are put into queue 3, the lowest priority
queue; files between 5 blocks and 30 blocks are put into queue 2, and
files lower than 5 blocks go into queue 1. Small files are always
guaranteed high priority; however, if there are a large number of
requests in the queues already, it is advisable to wait until the
queues become less heavily loaded.