BUILDPRD: Build Microsoft WORD PRinter Driver
version 2.0
 BUILDPRD generates a WORD 4.0 PRinter Driver (.PRD) based
on the HP Laserjet soft fonts you have on your system. The
(HP-format) soft fonts can be from Hewlett-Packard,
Bitstream, public domain, etc. and can be in various
directories on your disk(s).
This program is shareware by Gary Pardun Consulting. Try
it, share it, upload it, download it. If you find it useful
to you, register your copy by sending a check for $25 to:

          Gary Pardun Consulting
          2389 Sagamore Hills Drive
          Decatur, GA 30033-1216
Use the registration form included with this software,
called REGISTER.DOC. Be sure to include your name, address,
phone number, and the name and version of the software.
Benefits of registration: software upgrades for price of
floppy and postage, notice of additional software
availability, and new shoes for my kids.
If you have any difficulty with the program, or suggestions
for improvement, mail your comments to the above address or
call (404)634-6800.

Running BUILDPRD
To run the BUILDPRD program, I suggest you use the batch
file supplied with it called WORDPRD.BAT, which will not
only run the BUILDPRD program but also run the MAKEPRD
utility that comes with the MS WORD software. It looks like
this:

echo off
if '%1' == '' goto NoParam
BUILDPRD %1
echo.
echo on
MAKEPRD /P %1.PRD %1.DOC
goto End

:NoParam
echo
®   -
echo   *** Missing Printer DRiver name ***
echo
echo   Syntax: WORDPRD { Printer DRiver name (no
extension) }
echo
echo   Example: WORDPRD \WORD\HPLASER
echo

:End
Notice that when you run the WORDPRD batch file you give it
a parameter, which is the name of the Printer DRiver you
want to create. I suggest you specify the directory where

your other PRinter Drivers are. Usually this is also where
the WORD program itself is.
WORD 4.0 (and later?) really needs 2 files: the .PRD file
and the .DAT file. The .PRD file has the list of soft fonts
and all of the width tables. The .DAT file contains the
actual file titles of the various soft font files.
The BUILDPRD program creates a .DOC file, which is the clear
text equivalent of the .PRD file, and the .DAT file. In the
example above, BUILDPRD would create \WORD\HPLASER.DOC and \
WORD\HPLASER.DAT. You need to run the MAKEPRD utility that
Microsoft supplies with WORD to convert the .DOC file to the
equivalent .PRD file. The batch file mentioned above does
that for you.
If you have the Microsoft MAKEPRD utility in a "non-
visible" directory, i.e. not the current directory and not
in your PATH statement, then you need to modify the batch
file accordingly. For example, if you keep the MAKEPRD
program in the \UTIL directory on your hard disk, then
change the sixth line of the batch file shown above to:
\UTIL\MAKEPRD /P %1.PRD %1.DOC
Note: do not put an extension on the Printer DRiver name
when you run the batch file. Wrong: WORDPRD HPLASER.PRD
BUILDPRD will strip off the extension ok, but the Microsoft
MAKEPRD program will get upset.
The first question the BUILDPRD program will ask is whether
you want to generate a Portrait or Landscape printer driver.
Press P or L. BUILDPRD will ensure that any soft font files
it finds have the corresponding orientation.
The next question it asks is where to find the soft font
files. The default is highlighted. If the default is
correct, just hit Enter. Otherwise type in the correct file
spec and hit Enter. You can use the backspace key when the
window first pops up to start erasing from the end of the
default name rather than retyping the whole name.
Be sure to use wildcards (* and ?) for the soft font file
spec. The BUILDPRD program will process all of the files it
finds using that file spec AND THEN WILL ASK YOU FOR ANOTHER
FILE SPEC. This allows you to have your soft font files in
various directories. Unlike the .DAT files that Microsoft
provides, the .DAT files that BUILDPRD generates specify the
complete path for each soft font file. So you don't have to
put all of your soft fonts in the same directory as the
printer driver.
For each soft font file BUILDPRD finds, it will display the
file name, typeface, size, and stroke (regular, bold,
italic). It will display an error message if the file is
not a valid soft font file or has the wrong orientation
(portrait vs. landscape).
You will also get an error message if it encounters a
duplicate, i.e. same typeface, size, and stroke. Sometimes
there actually is a difference between "duplicate" soft
fonts, such as in the weight or special effects, but MS Word
can't distinguish between them so duplicates are discarded.
You may need to move some of the duplicates to other

directories in order to have BUILDPRD pick up the ones you want.
BUILDPRD builds the width tables for the PRinter Driver by reading the character descriptors in each soft font file. When you have told BUILDPRD where all of your soft fonts are, just hit Esc. It will then write out the printer driver .DOC and .DAT files. Then, as described above, run the MAKEPRD program to convert the .DOC file to a .PRD file. The last step is to run WORD and use Print Options to select your new printer driver.
Other Enhancements
BUILDPRD puts a few other enhancements in the PRinter Driver:
1. When you run WORD and use Print Options to set "feed:" to "Bin1," the laser printer will require a manual paper feed (not from the tray). If you set the "feed:" to "Bin2," the printer will request a manual feed of 8 1/2 x 14 paper.
2. A ; (hold Alt, type 135 on numeric pad, release Alt) formatted as Courier will print as the copyright symbol.
3. WORD will send a printer reset (Esc E) at the beginning of a print out so that if you have made any changes using the HP Laserjet control panel directly they will automatically take effect without having to do a manual reset.(I probably put in some other changes and fixed some problems that would be in Microsoft's standard drivers but I forgot what all they were.)
Problems
Here are some potential problems you may encounter.
1. Duplicate font files. (Described above.)
2. Font files with bad font descriptors. Some public domain soft font files have badly formatted font descriptors. If you have any of these that BUILDPRD cannot read, contact Gary Pardun Consulting for a utility to fix them up.
3. Font files with unknown typeface codes. The typeface code indicates the typeface, e.g. Helvetica, TimesRoman, etc. Some soft font files have a more or less arbitrary typeface code that is meaningless to BUILDPRD. (There doesn't seem to be any "standard" for typeface code assignment.) Sometimes a soft font for a normal typeface has a weird code. For example, a Helvetica clone may have a typeface code of something like 200 rather than 4. Again, if you have this problem, contact Gary Pardun Consulting for a utility to fix them up.
Supported Typefaces
BUILDPRD supports the following typefaces. Gary Pardun Consulting will add others upon request.
The first column is the default value for the first 2 characters of a soft font file name containing the particular typeface.
The second column is the typeface code that should be in the font descriptor in the soft font file. Most of these values come from the HP Laserjet documentation. If the column entry has {?}0 then the value is unknown and if you have

such a typeface please let GPC know what the correct
typeface code is.
The third column is the Microsoft Word font number, which
you see indirectly on a stylesheet. Many of these are
documented in the Microsoft Word Printer Information manual.
The rest are educated guesses.
The last column is the name of the typeface, which you will
see and use within Word.

```
  HP    Word    Typeface name
  --    ---     --   ------------
AB    119    54     Abbey
AG    1229    AvantGarde
AT    123    12     AmericanType
BC73    11    Broadway
BG    120    48     Benguiat
BK    {?}0    16     ITCBookman
BO22    30    Bodini
BR    {?}0    32     BrushScript
BS    124    17     Baskerville
CH72    50    Chancelor
CO20    38    Coronet
CP    118    55     Cooper
CR 32    CourierSF
CS23    25    CenturySchool
DB    {?}0    60     ZapfDingbats
GK75    40    Greek
GL    125    49     Gillies
GR18    28    Garamond
GT 64    LetterGothic
GX    1275    Galaxy
HN    {?}0    10     HelvNarrow
HU    {?}0    19     ZapfHumanist
HV 48    Helvetica
LG    100    57     Logo
LP 07    LinePrinter
OE    200    52     OldEnglish
OL    1266    Olivia
OP17    23    Optima
OR    121    53     Orna
PA    {?}0    37     ParkAvenue
PL15    26    Palatino
PR 83    Prestige
RC    230    13     Rockland
SC 7    35    Script
SV    {?}0    27     ITCSouvenir
SY    103    56     Symbol
TR 5    24    TimesRoman
UN24    31    UniversityRoman
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(End of BUILDPRD documentation)