## NAME
pbmupc - create a Universal Product Code bitmap

## SYNOPSIS
**pbmupc** [**-s1**|**-s2**] *type manufac product*

## DESCRIPTION
Generates a Universal Product Code symbol.  The three arguments are: a one digit product type, a five digit manufacturer code, and a five digit product code.  For example, "0 72890 00011" is the code for Heineken.

As presently configured, *pbmupc* produces a bitmap 230 bits wide and 175 bits high.  The size can be altered by changing the defines at the beginning of the program, or by running the output through *pnmenlarge* or *pnmscale*.

## OPTIONS
The **-s1** and **-s2** flags select the style of UPC to generate.  The default, **-s1**, looks more or less like this:

```
||||||||||||||||
||||||||||||||||
||||||||||||||||
||||||||||||||||
0||12345||67890||5
```

The other style, **-s2**, puts the product type digit higher up, and doesn't display the checksum digit:

```
||||||||||||||||
||||||||||||||||
0||||||||||||||||
||||||||||||||||
 ||12345||67890||
```

## SEE ALSO
pbm(5)

## AUTHOR
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