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*********************************************************
   2129 Wed Jun  5 18:03:57 2013
new/usr/src/man/man9f/ddi_ffs.9f
3799 ddi_ffs(9f): intddi_ffs
*********************************************************
   1 '\" te
   2 .\"  Copyright (c) 2006 Sun Microsystems, Inc.  All Rights Reserved.
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   6 .TH DDI_FFS 9F "Jun 5, 2013"
   6 .TH DDI_FFS 9F "Jan 16, 2006"
   7 .SH NAME
   8 ddi_ffs, ddi_fls \- find first (last) bit set in a long integer
   9 .SH SYNOPSIS
  10 .LP
  11 .nf
  12 #include <sys/conf.h>
  13 #include <sys/ddi.h>
  14 #include <sys/sunddi.h>


  18 \fBint\fR \fBddi_ffs\fR(\fBlong\fR \fImask\fR);
  18 \fBint\fR\fBddi_ffs\fR(\fBlong\fR \fImask\fR);
  19 .fi

  21 .LP
  22 .nf
  23 \fBint\fR \fBddi_fls\fR(\fBlong\fR \fImask\fR);
  24 .fi

  26 .SH INTERFACE LEVEL
  27 .sp
  28 .LP
  29 Solaris DDI specific (Solaris DDI).
  30 .SH PARAMETERS
  31 .sp
  32 .ne 2
  33 .na
  34 \fB\fImask\fR\fR
  35 .ad
  36 .RS 8n
  37 A 32-bit argument value to search through.
  38 .RE

  40 .SH DESCRIPTION
  41 .sp
  42 .LP
  43 The function \fBddi_ffs()\fR takes its argument and returns the shift count
  44 that the first (least significant) bit set in the argument corresponds to. The
  45 function \fBddi_fls()\fR does the same, only it returns the shift count for the
  46 last (most significant) bit set in the argument.
  47 .SH RETURN VALUES
  48 .sp
  49 .ne 2
  50 .na
  51 \fB\fB0\fR\fR
  52 .ad
  53 .RS 5n
  54 No bits are set in mask.
  55 .RE

  57 .sp
  58 .ne 2
  59 .na
```

```
  60 \fB\fIN\fR\fR
  61 .ad
  62 .RS 5n
  63 Bit  \fIN\fR is the least significant (\fBddi_ffs\fR) or most significant
  64 (\fBddi_fls\fR) bit set in mask. Bits are numbered from  \fB1\fR to  \fB32\fR,
  65 with bit \fB1\fR being the least significant bit position and bit \fB32\fR the
  66 most significant position.
  67 .RE

  69 .SH CONTEXT
  70 .sp
  71 .LP
  72 This function can be called from user, interrupt, or kernel context.
  73 .SH SEE ALSO
  74 .sp
  75 .LP
  76 \fIWriting Device Drivers\fR
```