NAME
   kgdb - kernel debugger

SYNOPSIS
   kgdb [**-a** | **-f** | **-fullname**] [**-b** *rate*] [**-q** | **-quiet**] [**-v**] [**-w**] [**-d** *crashdir*] [**-c** *core* | **-n** *dumpnr* | **-r** *device*]
       [*kernel* [*core*]]

DESCRIPTION
   The **kgdb** utility is a debugger based on gdb(1) that allows debugging of kernel core files.

   The options are as follows:

   -a   Increase the annotation level. An annotation level of 1 features the historical **-fullname**
                 option of gdb(1). This is useful when running **kgdb** in Emacs. The **-f** or **-fullname**
                 options are supported for backward compatibility as well.

   -b *rate*   Set the baudrate to *rate*.

   -q   Suppress printing of the banner when the debugger starts. The **-quiet** form is supported
                 for compatibility as well.

   -v   Increase verbosity.

   -w   Opens kmem-based targets in read-write mode. (This is identical to what **--wcore** used to
                 do in previous gdb versions for FreeBSD.)

   -d *crashdir*   Use *crashdir* instead of the default, */var/crash* to locate kernel core dump files in. The
                 name *vmcore.* plus the dump number will be appended to determine the actual dump file
                 name.

   -c *core*   Explicitly use *core* as the core dump file.

   -n *dumpnr*   Use the kernel core dump file numbered *dumpnr* for debugging.

   -r *device*   Use *device* to connect **kgdb** to for a remote debugging session.

   The **-c**, **-n**, and **-r** options are mutually exclusive.

   Optionally, the name of the kernel symbol file and the name of the core dump file can be supplied on the
   command-line as positional arguments. If no kernel symbol file name has been given, the symbol file of

the currently running kernel will be used. If no core dump file has been specified through either of the options or the last command-line argument, */dev/mem* will be opened to allow debugging the currently running kernel.

FILES

    /dev/mem

          Default memory image to open if no core dump file has been specified.

    /var/crash Default directory to locate kernel core dump files.

SEE ALSO

    gdb(1)

HISTORY

    The **kgdb** utility first appeared in its current form in FreeBSD 5.3.