

Re: __VA_ARGS__izing IEEE80211_DPRINTF[2]()

Source: <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/arch/2003-11/0011.html>

From: Sam Leffler (sam_at_errno.com)

Date: 11/05/03

To: Brian Fundakowski Feldman <green@freebsd.org>, arch@freebsd.org

Date: Wed, 5 Nov 2003 14:01:27 -0800

On Wednesday 05 November 2003 10:04 am, Brian Fundakowski Feldman wrote:

> *Would it be a problem to make the following change to src/sys/net80211 so*
> *that the debug messages aren't totally useless for systems that have more*
> *than one card (or confusing on systems that just have one)? Obviously, it*
> *would also involve removing the extra parentheses in each of the callers as*
> *well.*

>

> *Old:*

> *#define IEEE80211_DPRINTF(X) if (ieee80211_debug) printf X*
> *#define IEEE80211_DPRINTF2(X) if (ieee80211_debug>1) printf X*

>

> *New:*

> *#define IEEE80211_DPRINTF(...) do { *
> *if (ieee80211_debug) *
> *if_printf(&ic->ic_ifp, __VA_ARGS__); *
> *while (0)*

>

> *The only place this wouldn't work is ieee80211_decap(), so I'd change it to*
> *add a local "ic" variable when compiled for debugging. There's an easy*
> *fallback for non-C99 compilers, too; it just wouldn't print the interface:*

>

> *static __inline void*
> *IEEE80211_DPRINTF(const char *fmt, ...)*
> *{*
>
> *if (ieee80211_debug) {*
> *va_list ap;*
>
> *va_start(ap, fmt);*
> *(void)vprintf(fmt, ap);*
> *va_end(ap);*
> *}*
> *}*

I can't see what your intent is from the above. If the point is to use `if_printf` everywhere so all the `printfs` have a device prepended to the message then I'm fine with that. However I think it's a bad idea to depend

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on local variables existing. If you're going to do it, then add an explicit argument to the macros.

If you're trying to deal with debugging systems w/ multiple 802.11 cards then you probably want debugging enabled on a per-if basis which this doesn't address.

Regardless, in all this remember that this code is shared with other systems so changes like this shouldn't be done lightly.

Sam

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