
Subject: Re: [PATCH RFC 1/31] net: Add net_namespace_type.h to allow for per network namespace variables.

Posted by [Stephen Hemminger](#) on Thu, 25 Jan 2007 20:30:17 GMT

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Can all this be a nop if a CONFIG option is not selected?

```
>
> diff --git a/include/linux/net_namespace_type.h b/include/linux/net_namespace_type.h
> new file mode 100644
> index 0000000..8173f59
> --- /dev/null
> +++ b/include/linux/net_namespace_type.h
> @@ -0,0 +1,52 @@
> +/*
> + * Definition of the network namespace reference type
> + * And operations upon it.
> + */
> +#ifndef __LINUX_NET_NAMESPACE_TYPE_H
> +#define __LINUX_NET_NAMESPACE_TYPE_H
> +
> +#define __pernetname(name) per_net_##name
```

Code obfuscation, please don't do that

```
> +typedef struct {} net_t;
```

No typedef for this please.

```
> +
> +#define __data_pernet
> +
> +/* Look up a per network namespace variable */
> +static inline unsigned long __per_net_offset(net_t net) { return 0; }
> +
> +/* Like per_net but returns a pseudo variable address that must be moved
> + * __per_net_offset() bytes before it will point to a real variable.
> + * Useful for static initializers.
> + */
> +#define __per_net_base(name) __pernetname(name)
> +
> +/* Get the network namespace reference from a per_net variable address */
> +#define net_of(ptr, name) ({ net_t net; ptr; net; })
> +
> +/* Look up a per network namespace variable */
```

```

> + #define per_net(name, net) \
> + ( (__per_net_offset(net), &__per_net_base(name)))
> +
> + /* Are the two network namespaces the same */
> + static inline int net_eq(net_t a, net_t b) { return 1; }
> + /* Get an unsigned value appropriate for hashing the network namespace */
> + static inline unsigned int net_hval(net_t net) { return 0; }
> +
> + /* Convert to and from to and from void pointers */
> + static inline void *net_to_voidp(net_t net) { return NULL; }
> + static inline net_t net_from_voidp(void *ptr) { net_t net; return net; }
> +
> + static inline int null_net(net_t net) { return 0; }
> +
> + #define DEFINE_PER_NET(type, name) \
> + __data_pernet __typeof__(type) __pernetname(name)
> +
> + #define DECLARE_PER_NET(type, name) \
> + extern __typeof__(type) __pernetname(name)
> +
> + #define EXPORT_PER_NET_SYMBOL(var) \
> + EXPORT_SYMBOL(__pernetname(var))
> + #define EXPORT_PER_NET_SYMBOL_GPL(var) \
> + EXPORT_SYMBOL_GPL(__pernetname(var))
> +
> + #endif /* __LINUX_NET_NAMESPACE_TYPE_H */

```

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