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1.2 libuinet 1.0

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*/
#ifdef __cplusplus
extern "C" {
#endif
#ifdef_WIN32
# define WIN32_LEAN_AND_MEAN
# include <windows.h>
# undef WIN32_LEAN_AND_MEAN
typedef unsigned char u_char;
typedef unsigned short u_short;
#else
# include <sys/types.h>
# include <sys/time.h>
# include <inttypes.h>
#endif
#include <stdarg.h>
/* Fix so that ppl dont have to run with <sys/queue.h> */
#ifndef TAILQ ENTRY
#define _EVENT_DEFINED_TQENTRY
#define TAILQ_ENTRY(type)
struct {
struct type *tqe_next; /* next element */ \
struct type **tqe_prev; /* address of previous next element */\
#endif /* !TAILQ_ENTRY */
#ifndef RB ENTRY
#define _EVENT_DEFINED_RBENTRY
#define RB_ENTRY(type)
struct {
struct type *rbe_left; /* left element */ \
```

#endif /* !RB_ENTRY */

struct type *rbe_right; /* right element */ \
struct type *rbe_parent; /* parent element */ \

int rbe_color; /* node color */ \

/*

^{*} Key-Value pairs. Can be used for HTTP headers but also for

^{*} query argument parsing.

```
struct evkeyval {
TAILQ_ENTRY(evkeyval) next;
char *key;
char *value;
};
#ifdef _EVENT_DEFINED_TQENTRY
#undef TAILQ ENTRY
struct event_list;
struct evkeyvalq;
#undef _EVENT_DEFINED_TQENTRY
#else
TAILQ_HEAD (event_list, event);
TAILQ_HEAD (evkeyvalq, evkeyval);
#endif /* _EVENT_DEFINED_TQENTRY */
#ifdef EVENT DEFINED RBENTRY
#undef RB_ENTRY
#undef _EVENT_DEFINED_RBENTRY
#endif /* _EVENT_DEFINED_RBENTRY */
struct eventop {
char *name;
void *(*init)(struct event_base *);
int (*add)(void *, struct event *);
int (*del)(void *, struct event *);
int (*recalc)(struct event_base *, void *, int);
int (*dispatch)(struct event_base *, void *, struct timeval *);
void (*dealloc)(struct event_base *, void *);
};
/* These functions deal with buffering input and output */
struct evbuffer {
u_char *buffer;
u_char *orig_buffer;
size_t misalign;
size_t totallen;
size_t off;
void (*cb)(struct evbuffer *, size_t, size_t, void *);
void *cbarg;
};
/* Just for error reporting - use other constants otherwise */
#define EVBUFFER_READ 0x01
```

```
#define EVBUFFER_WRITE 0x02
#define EVBUFFER_EOF 0x10
#define EVBUFFER_ERROR 0x20
#define EVBUFFER_TIMEOUT 0x40
struct bufferevent;
typedef void (*evbuffercb)(struct bufferevent *, void *);
typedef void (*everrorcb)(struct bufferevent *, short what, void *);
struct event_watermark {
size_t low;
size_t high;
};
struct bufferevent {
struct event ev_read;
struct event ev_write;
struct evbuffer *input;
struct evbuffer *output;
struct event_watermark wm_read;
struct event_watermark wm_write;
evbuffercb readcb;
evbuffercb writecb;
everrorcb errorcb;
void *cbarg;
int timeout read; /* in seconds */
int timeout_write; /* in seconds */
short enabled; /* events that are currently enabled */
};
struct bufferevent *bufferevent_new(int fd,
 evbuffercb readcb, evbuffercb writecb, everrorcb errorcb, void *cbarg);
int bufferevent_base_set(struct event_base *base, struct bufferevent *bufev);
int bufferevent_priority_set(struct bufferevent *bufev, int pri);
void bufferevent_free(struct bufferevent *bufev);
int bufferevent_write(struct bufferevent *bufev, const void *data, size_t size);
int bufferevent_write_buffer(struct bufferevent *bufev, struct evbuffer *buf);
size_t bufferevent_read(struct bufferevent *bufev, void *data, size_t size);
int bufferevent_enable(struct bufferevent *bufev, short event);
int bufferevent_disable(struct bufferevent *bufev, short event);
void bufferevent_settimeout(struct bufferevent *bufev,
 int timeout_read, int timeout_write);
```

```
#define EVBUFFER_LENGTH(x) (x)->off
#define EVBUFFER_DATA(x) (x)->buffer
#define EVBUFFER_INPUT(x) (x)->input
#define EVBUFFER_OUTPUT(x) (x)->output
struct evbuffer *evbuffer_new(void);
void evbuffer free(struct evbuffer *);
int evbuffer_expand(struct evbuffer *, size_t);
int evbuffer_add(struct evbuffer *, const void *, size_t);
int evbuffer remove(struct evbuffer *, void *, size t);
char *evbuffer_readline(struct evbuffer *);
int evbuffer_add_buffer(struct evbuffer *, struct evbuffer *);
int evbuffer add printf(struct evbuffer *, const char *fmt, ...);
int evbuffer_add_vprintf(struct evbuffer *, const char *fmt, va_list ap);
void evbuffer_drain(struct evbuffer *, size_t);
int evbuffer write(struct evbuffer *, int);
int evbuffer_read(struct evbuffer *, int, int);
u char *evbuffer find(struct evbuffer *, const u char *, size t);
void evbuffer_setcb(struct evbuffer *, void (*)(struct evbuffer *, size_t, size_t, void *), void *);
* Marshaling tagged data - We assume that all tags are inserted in their
* numeric order - so that unknown tags will always be higher than the
* known ones - and we can just ignore the end of an event buffer.
void evtag init(void);
void evtag_marshal(struct evbuffer *evbuf, uint32_t tag, const void *data,
 uint32 t len);
void encode_int(struct evbuffer *evbuf, uint32_t number);
void evtag_marshal_int(struct evbuffer *evbuf, uint32_t tag, uint32_t integer);
void evtag_marshal_string(struct evbuffer *buf, uint32_t tag,
 const char *string);
void evtag_marshal_timeval(struct evbuffer *evbuf, uint32_t tag,
  struct timeval *tv);
int evtag_unmarshal(struct evbuffer *src, uint32_t *ptag, struct evbuffer *dst);
int evtag_peek(struct evbuffer *evbuf, uint32_t *ptag);
int evtag_peek_length(struct evbuffer *evbuf, uint32_t *plength);
int evtag_payload_length(struct evbuffer *evbuf, uint32_t *plength);
int evtag_consume(struct evbuffer *evbuf);
int evtag_unmarshal_int(struct evbuffer *evbuf, uint32_t need_tag,
```

```
uint32_t *pinteger);
int evtag_unmarshal_fixed(struct evbuffer *src, uint32_t need_tag, void *data, size_t len);
int evtag_unmarshal_string(struct evbuffer *evbuf, uint32_t need_tag, char **pstring);
int evtag_unmarshal_timeval(struct evbuffer *evbuf, uint32_t need_tag, struct timeval *ptv);

#ifdef __cplusplus
}
#endif
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