

```
30
      * POSSIBILITY OF SUCH DAMAGE.
31
      */
32
33
     #include "yajl_buf.h"
34
35
     #include <assert.h>
     #include <stdlib.h>
36
37
     #include <string.h>
38
39
     #define YAJL_BUF_INIT_SIZE 2048
40
41
     struct yajl_buf_t {
42
         unsigned int len;
43
         unsigned int used;
44
         unsigned char * data;
         yajl_alloc_funcs * alloc;
45
     };
46
47
48
     static
     void yajl_buf_ensure_available(yajl_buf buf, unsigned int want)
49
50
51
         unsigned int need;
52
53
         assert(buf != NULL);
54
         /* first call */
55
         if (buf->data == NULL) {
56
57
             buf->len = YAJL_BUF_INIT_SIZE;
             buf->data = (unsigned char *) YA_MALLOC(buf->alloc, buf->len);
58
             buf->data[0] = 0;
59
         }
60
61
62
         need = buf->len;
63
64
         while (want >= (need - buf->used)) need <<= 1;</pre>
65
66
         if (need != buf->len) {
             buf->data = (unsigned char *) YA_REALLOC(buf->alloc, buf->data, need);
67
             buf->len = need;
68
69
         }
70
     }
71
72
     yajl_buf yajl_buf_alloc(yajl_alloc_funcs * alloc)
73
         yajl_buf b = YA_MALLOC(alloc, sizeof(struct yajl_buf_t));
74
75
         memset((void *) b, 0, sizeof(struct yajl_buf_t));
76
         b->alloc = alloc;
77
         return b;
78
     }
```

```
79
 80
      void yajl_buf_free(yajl_buf buf)
 81
          assert(buf != NULL);
 82
          if (buf->data) YA_FREE(buf->alloc, buf->data);
 83
          YA FREE(buf->alloc, buf);
 84
 85
      }
 86
      void yajl buf append(yajl buf buf, const void * data, unsigned int len)
 87
 88
 89
          yajl_buf_ensure_available(buf, len);
 90
          if (len > 0) {
              assert(data != NULL);
 91
              memcpy(buf->data + buf->used, data, len);
 92
 93
              buf->used += len;
              buf->data[buf->used] = 0;
 94
 95
          }
96
      }
 97
      void yajl_buf_clear(yajl_buf buf)
98
99
      {
100
          buf->used = 0;
          if (buf->data) buf->data[buf->used] = 0;
101
102
      }
103
104
      const unsigned char * yajl_buf_data(yajl_buf buf)
105
106
          return buf->data;
107
108
109
      unsigned int yajl_buf_len(yajl_buf buf)
110
111
          return buf->used;
112
      }
113
      void
114
115
      yajl_buf_truncate(yajl_buf buf, unsigned int len)
116
          assert(len <= buf->used);
117
          buf->used = len;
118
119
      }
```