

new/usr/src/lib/udapl/libdat/common/dat_dictionary.c

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*****
9286 Thu Jan 17 14:48:54 2019
new/usr/src/lib/udapl/libdat/common/dat_dictionary.c
10111 dat_dictionary_create() use after free
*****
```

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31 /*
32 * Copyright (c) 2018, Joyent, Inc.
33 */
34 #pragma ident "%Z%%M% %I% %E% SMI"

35 /*
36 *
37 * MODULE: dat_dictionary.c
38 *
39 * PURPOSE: dictionary data structure
40 *
41 * \$Id: dat_dictionary.c,v 1.11 2003/08/05 19:01:48 jlentini Exp \$
42 */

45 #include "dat_dictionary.h"

48 /*
49 *
50 * Structures
51 *
52 */

54 typedef struct DAT_DICTIONARY_NODE
55 {
56 DAT_PROVIDER_INFO key;
57 DAT_DICTIONARY_DATA data;
58 struct DAT_DICTIONARY_NODE *prev;
59 struct DAT_DICTIONARY_NODE *next;
60 } DAT_DICTIONARY_NODE;
unchanged portion omitted

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```
70 /*  
71 *  
72 * Function Declarations  
73 *  
74 */  
  
76 static DAT_RETURN  
77 dat_dictionary_key_dup(  
78     const DAT_PROVIDER_INFO      *old_key,  
79     DAT_PROVIDER_INFO           *new_key);  
  
81 static DAT_BOOLEAN  
82 dat_dictionary_key_is_equal(  
83     const DAT_PROVIDER_INFO      *key_a,  
84     const DAT_PROVIDER_INFO      *key_b);  
  
87 /*  
88 *  
89 * External Functions  
90 *  
91 */  
  
94 /*  
95 * Function: dat_dictionary_create  
96 */  
  
98 DAT_RETURN  
99 dat_dictionary_create(  
100    OUT DAT_DICTIONARY **pp_dictionary)  
101 {  
102     DAT_DICTIONARY *p_dictionary;  
103     DAT_RETURN status;  
  
105     dat_os_assert(NULL != pp_dictionary);  
  
107     status = DAT_SUCCESS;  
  
109     /* create the dictionary */  
110     p_dictionary = dat_os_alloc(sizeof(DAT_DICTIONARY));  
111     if (NULL == p_dictionary) {  
112         status = DAT_ERROR(DAT_INSUFFICIENT_RESOURCES,  
113                             DAT_RESOURCE_MEMORY);  
114         goto bail;  
115     }  
  
117     (void) dat_os_memset(p_dictionary, '\0', sizeof(DAT_DICTIONARY));  
  
119     /* create the head node */  
120     p_dictionary->head = dat_os_alloc(sizeof(DAT_DICTIONARY_NODE));  
121     if (NULL == p_dictionary->head) {  
122         status = DAT_ERROR(DAT_INSUFFICIENT_RESOURCES,  
123                             DAT_RESOURCE_MEMORY);  
124         goto bail;  
125     }  
  
127     (void) dat_os_memset(p_dictionary->head, '\0',  
128                         sizeof(DAT_DICTIONARY_NODE));  
  
130     /* create the tail node */  
131     p_dictionary->tail = dat_os_alloc(sizeof(DAT_DICTIONARY_NODE));  
132     if (NULL == p_dictionary->tail) {  
133         status = DAT_ERROR(DAT_INSUFFICIENT_RESOURCES,  
134                             DAT_RESOURCE_MEMORY);
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135         goto bail;
136     }
138     (void) dat_os_memset(p_dictionary->tail, '\0',
139     sizeof (DAT_DICTIONARY_NODE));
141     p_dictionary->head->next = p_dictionary->tail;
142     p_dictionary->tail->prev = p_dictionary->head;
144     *pp_dictionary = p_dictionary;
146 bail:
147     if (DAT_SUCCESS != status) {
148         if (NULL != p_dictionary) {
149             dat_os_free(p_dictionary, sizeof (DAT_DICTIONARY));
150             if (NULL != p_dictionary->head) {
151                 dat_os_free(p_dictionary->head,
152                             sizeof (DAT_DICTIONARY_NODE));
153             }
154             if (NULL != p_dictionary->tail) {
155                 dat_os_free(p_dictionary->tail,
156                             sizeof (DAT_DICTIONARY_NODE));
157             }
158         }
159         dat_os_free(p_dictionary, sizeof (DAT_DICTIONARY));
160     }
162 }
164 return (status);
165 }
```

unchanged portion omitted