Counters

Michael 2017

```
VPP16.09
Data Structure
typedef struct vlib_main_t
                                                  typedef struct vlib_node_t
 /* Error handling. */
                                                    /* Number of error codes used by this node. */
                                                   u16 n_errors;
 vlib_error_main_t error_main;
                                                   /* Size of scalar and vector arguments in bytes. */
} vlib_main_t;
                                                   u16 scalar_size, vector_size;
                                                    /* Handle/index in error heap for this node. */
                                                    u32 error_heap_handle;
                                                    u32 error_heap_index;
                                                   /* Error strings indexed by error code for this node. */
                                                   char **error_strings;
                                                  } vlib_node_t;
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```

```
Example
                                                                                                         VPP16.09
vlib_node_registration_t sample_node;
                                                     VLIB REGISTER NODE (sample node) = {
                                                       .function = sample node fn,
#define foreach sample error \
                                                      .name = "sample",
_(SWAPPED, "Mac swap packets processed")
                                                       .vector size = sizeof (u32),
                                                      .format trace = format sample trace,
typedef enum {
                                                       .type = VLIB_NODE_TYPE_INTERNAL,
#define _(sym,str) SAMPLE_ERROR_##sym,
 foreach_sample_error
                                                      .n errors = ARRAY LEN(sample error strings),
#undef
                                                      .error_strings = sample_error_strings,
 SAMPLE N ERROR,
} sample_error_t;
                                                      .n_next_nodes = SAMPLE_N_NEXT,
static char * sample error strings[] = {
                                                      /* edit / add dispositions here */
#define _(sym,string) string,
                                                      .next nodes = {
 foreach sample error
                                                          [SAMPLE_NEXT_INTERFACE_OUTPUT] = "interface-output",
#undef _
                                                      },
};
                                                     };
                                                     register_node()
                                                       vlib_register_errors (vm, n->index, r->n_errors, r->error_strings);
                                                      - node_elog_init (vm, n->index);
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```