

Category	Sub-category	Example comments and sub-categories	Support	Stat
<b>Type</b>	<i>Null</i>	<code>/* ... param wrch ... (may be NULL) */</code>	Deputy, SAL, Splint	6.5%
	<i>Bound</i>	<code>/* dst - pointer to byte sequence to search ... * dlen - length available to search in */ char *memstr(src, dst, slen, dlen)</code>	Deputy, SAL, Splint, Meca	1.1%
	<i>Range</i>	<i>IntRange, StringRange, Zero</i>  1. <code>short charheight; /* lines per char (1-32) */</code> 2. <code>char *svc_principal; /* service@server, e.g. nfs@caribe */</code>	Partially by SAL and Splint, Ada	6.5+2.2%
	<i>Unit</i>	<i>UnitTime, UnitByte,</i>  1. <code>#define RNG_RETRY_HLCHK_USECS 100000 /*retry every .1 seconds*/</code> 2. <code>int mem; /* memory in 128 MB units */</code>	Unit/Dimension type systems, TeX for distance	28.3%
	<i>DependentType</i>	<i>DependUnion, DependArray</i>  <code>union {     /* chunk memory handles */     struct ib_mr *rl_mr; /* if registered directly */     struct rpcrdma_mw { ... } /* if registered from region */ }</code>	Deputy, ML, C++ template	9.8%
	<i>RelationType</i>	<code>GUID birth_object_id; /* Unique id of file ... */</code>	SQL, UML	3.3%
	<i>Bit and Bytes</i>	<code>#define B0_XM2_ISRC 0x0048 /* 16 bit ro ... */ /* 0x004a - 0x004f: reserved */ #define B0_XM2_PHY_ADDR 0x0050 /* 16 bit r/w ... */</code>	Devil, Melange, PADL	42.4%
	<i>Other</i>	<i>Template, MemoryType,</i>  <code>struct list_head list; /* list of logical units */</code>	C++ template, Sparse	1.1%
<b>Interface</b>	<i>PreCondition</i>	<code>/* This must be called only on pages that have * been verified to be in the swap cache. */</code>	JML, Larch, Eiffel	10.6%
	<i>Context</i>	<i>ContextLock, ContextInterrupt, CallerCallee, CallingOrder</i>  1. <code>/* cs-&gt;lock must not be locked */</code> 2. <code>/* Assumes that SGE is stopped and all interrupts are disabled.</code> 3. <code>/* used by: simba_detach() on suspends */</code> 4. <code>/* Called after the page allocator have been initialised and * before smp_init() */</code>	Partially Lock_lint, Splint, and Sparse	27.5%
	<i>InOut</i>	<code>/* Parameters: * listp(IO) - pointer to start of list with skip rule * rp(I) - rule added/removed with skip in it. * addremove(I) - adjustment (-1/+1) to make to skip count, * depending on whether a rule was just added */</code>	Splint, SAL, Ada, Corba IDL	4.9%
	<i>ErrorReturn</i>	<code>/* Returns: 0 on success, positive value on failure. */</code>	C++ exception mechanism	18.3%
	<i>Effect</i>	<code>pci_read_config_dword(...); /* flush write */</code>	Partially by SAL, Splint, Sparse, and Lock_lint	24.6%
	<i>Other</i>	<i>ModuleInterface, TimeSpace, MagicNumber</i>  1. <code>extern const int st_ndrivetypes; /* defined in st_conf.c */</code> 2. <code>/* swapoff spends a_lot_of time in this loop! */</code>		14.8+2.1+1.4+4.2+3.5%
	<b>Meta Information</b>			
<i>Meta</i>		<i>Author, Copyright, Date</i>  <code>/* Copyright 2000-2003 by Armin Schindler (mac@melware.de) ... */</code>	Javadoc	2.6%

Table 1: Comment categories based on contents, part 1/2. “Support” denotes if the category can be supported by any existing tools (e.g., annotation languages, IDEs, etc.), and if yes, some example tool names are listed.

Category	Sub-category	Examples and possible sub-categories	Support	Stat
<b>Code Relation-ship</b>				<b>29.6%</b>
	<i>FileOrganization</i>	* ----- EEPROM UTILITIES: */	Editor, outline and code folding	14.5%
	<i>ControlFlow</i>	<i>Fallthrough, Unreachable, EndOfXXX</i> 1. /* FALLTHRU */ case LEN:	Source code navigator, Lint	7.4+9.3%
	<i>DataFlow</i>	<i>DataFunc, Unused</i> (including <i>ARGSUSED</i> ) 1. /* used by trees.c: */ struct ct_data_s dyn_ltree[HEAP_SIZE]; 2. #define ACE_WORD_SWAP_BD 0x04 /* not actually used */ 3. /* ARGSUSED */ int t1394_free_addr(...)	Source code navigator, Lint, Spark Ada	18.0%
	<i>Correlation</i>	<i>DataClump, LockVarProtection, Protocol, BufferOwnership</i> 1. u_int64_t xmitPackets; /* number of packets xmit */ u_int64_t xmitOctets; /* number of octets xmit */ 2. /* [j_state_lock] */ unsigned long j_tail; 3. /* Note that this function only works on kmalloc_node_cache */	Partially by Lock_lint, PR-miner, MUVI	14.5%
	<i>Clone</i>	/* derived from mm/shmem.c and fs/ramfs/inode.c */	CP-miner	1.9%
	<i>Repeat</i>	<i>RepeatType, RepeatParam</i> int ext2_inactive(struct vop_inactive_args /* { struct vnode *a_vp; struct thread *a_td; } */ *ap)	Source code editor, named argument PL feature, Ada	4.8%
	<i>Designator</i>	<i>DesignatorField, DesignatorMethod, DesignatorHashArray</i> const struct st_drivetype st_drivetypes[] = { ... `Unisys ...', /* .name ... */ 15, /* .length ... */ ... };	gcc designator extension	25.4%
	<i>ByteAddress</i>	uint32_t micibdbar_reg /* 60h-63h*/ uint8_t miciciv_reg /* 64h-64h*/ uint8_t micilviv_reg /* 65h-65h*/		4.5%
<i>Other</i>	<i>CrossReference</i> /* See "auto" comment in init_setup */	Hypertext	3.2%	
<b>PastFuture</b>				<b>4.5%</b>
	<i>TODO</i>	struct ... { /* XXX - most fields in ki_rusage_ch are not (yet) filled in */ struct rusage ki_rusage_ch; /* rusage of children processes */ struct pcb *ki_pcb; /* kernel virtual addr of pcb */	Eclipse	42.6%
	<i>Reminder</i>	struct kmem_list3 *nodelists[MAX_NUMNODES]; /* Do not add fields after nodelists[] */		14.9%
	<i>Trigger</i>	/* Shouldn't this be in a header file somewhere? */ #define BYTES_PER_WORD sizeof(void *)		6.4%
	<i>Other</i>	<i>OldCode, Log, Deprecated</i> i++; /* DELAY(100); */		23.4+4.3+4.3+4.3%
<b>Explanation</b>				<b>47.3%</b>
	<i>Other</i>	<i>Example, ShortNameExplain, Ref, Diagram, Font, Brief, etc</i> /* Install a shutdown hook. */ sc->sdh_cookie = shutdownhook_establish(shutdown_card, sc);	Javadoc	47.3%

Table 2: Comment categories based on contents, part 2/2.