- fix missing inlining of _Generic expression
- fix evaluation error with assignment of qualified arrays
- delay 'empty character constant' warning to phase 5
- simplify & fix parsing of array declarators
- accept whitespace after option -U
- teach dissect about _Generic
- reset locale after gtk_init() to workaround problems with strtold()
- fix linearization of shift-assign
- force to 0 expressions which are erroneously non-constant
- fix evaluate_ptr_add() when sizeof(offset) != sizeof(pointer)
- fix access to defining instruction in simplify_unop()
- fix evaluation of pointer to bool conversions
- fix usual conversion of integers
- fix null pointer deref on return expression with invalid type

- add support for arch specific asm constraints
- add memory asm constraint for PPC & S390
- prepend diagnostics with source's path and include chain
- add support for h8300, microblaze, nds32, openrisc, sh & xtensa
- add support for '-march=…' and use it for riscv
- add an option to specify the OS: –os=$OS
- add predefines for OS identification
- add predefines for __INT_LEAST${N}_TYPE__ & __INT_FAST${N}_TYPE__
- document the sparse's extensions
- sindex/semind: allow indexing outside the project tree
- rename tool 'sindex' to 'semind'
- add builtin support for __sync_{bool,val}_compare_and_swap()
- add support for wide strings
- union-cast: teach sparse about union casts
- add support for a new instruction: OP_FMADD
- add various warnings for dangerous usage of flexible array members
- add builtin support for __builtin_ia32_pause()

- cleanup the handling of options flags
- avoid multiple warnings when inlining undeclared calls
- small fixes for alpha, arm, nios2, ppc, sparc & x86
- add missing predefines for endianness on arm, arm64, mips
- add various missing arch-specific predefines
- add the predefines '__cdecl', … on cygwin

- warn on empty assignments & initializations
- reorganize the keyword parsing table
- the message in _Static_assert() is now optional (C2x)
- small fixes & improvement to the [online] documentation
- allow [*] in array declarators
- do not accept comma expressions in array declarator
- simplify parsing of attributes & storage class
- bad-shift: wait dead code elimination to warn about bad shifts
- fix is_scalar_type(): fouled types are scalars too
- better support for linearization of builtins
- remove definition of removed OP_{AND,OR}_BOOL