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Title word cross-reference

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[62] William Pugh. Skip lists: a probabilistic alternative to balanced trees. Communications of the ACM, 33(6):668–676, June 1990. CODEN CACMA2. ISSN 0001-0782 (print), 1557-7317 (electronic). URL http://www.acm.org/pubs/toc/Abstracts/0001-0782/78977.html. This paper presents skip lists, a list in which a node may have a pointer to a node some number of places ahead of it on the list. Such pointers, called “forward pointers”, therefore “skip” over intermediate nodes. A node with \( k \) forward pointers is said to be a level \( k \) node. Skip lists are probabilistic in that the level of a node is chosen randomly with the property that a node’s \( i \)th forward pointer points to the next node of level \( i \) or higher. It is shown that skips lists can efficiently implement abstract data types such as dictionaries and ordered lists in that the expected time to search for an item is \( O(\log n) \).


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[126] Barton P. Miller, Lars Fredriksen, and Bryan So. An empirical study of the reliability of UNIX utilities. Communications of the ACM, 33(12):32–44, December 1990. CODEN CACMA2. ISSN 0001-0782 (print), 1557-7317 (electronic). URL ftp://grilled.cs.wisc.edu/technical_papers/fuzz.ps; ftp://grilled.cs.wisc.edu/technical_papers/fuzz-revisited.ps; http://www.acm.org/pubs/toc/Abstracts/0001-0782/96279.html. This is a fascinating paper on what happens when random input streams are fed into important UNIX utilities on several commercial UNIX systems. In some cases, the tests were able to crash the entire operating system. In 1995, a (sadly, unpublished) followup study showed that many of the failures diagnosed in 1990 still had not been repaired in the commercial systems, and that the GNU implementations were generally more robust. Both 1990 and 1995 papers, and the fuzz-generating software, are available at the authors’ FTP site at ftp://grilled.cs.wisc.edu/technical_papers/fuzz.ps and ftp://grilled.cs.wisc.edu/technical_papers/fuzz-revisited.ps.


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[187] Ean Tyugu. Three new-generation software environments. Communications of the ACM, 34(6):46–59, June 1991. CODEN CACMA2. ISSN 0001-0782 (print), 1557-7317 (electronic). URL http://www.acm.org/pubs/toc/Abstracts/0001-0782/103708.html. The system PRIZ has been under development at the Institute of Cybernetics, Tallinn, Estonia since mid-seventies. This article describes three environments of different sophistication based on this system: ExpertPRIZ, a simple expert system shell; C-PRIZ, a language integrating imperative programming (C); and NUT (New UTopist; Utopist was the initial programming language of PRIZ), an object-oriented environment. Data elements in Utopist (attributes of objects) can be bound by both inter- and intra-object relations. These rela-
tions are used by a propositional theorem prover to generate a proof that it is possible to compute a certain datum given some other data. This (constructive) proof is used to synthesize a program which computes the datum. So PRIZ has a quite non-standard logic component: compile-time proof and program generation instead of run-time clause resolution. These technique are called Propositional Logic Programming and Structural Program Synthesis. NUT is a prototype-based (as opposed to class-based) language: any object can be used as a template (type) for a new object (and of course as a component of a new object). Limited polymorphism is supported through a generic type (any). It is notable that some of the modern programming paradigms (constraint programming, object-orientation, employing logic in computation) have been considered so early.


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[227] Charles Lamb, Gordon Landis, Jack Orenstein, and Dan Weinreb. The
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