

The basis is necessary for development 発展には基礎が必要



- For a tree to grow larger, its root must grow bigger and deeper into the ground.
- Similarly, for test technologies (leaves) to develop, substantial results of the fundamental research (root) are necessary.
- The more enriched the fundamental research results become, the more enriched the practical research results become.





















Heuristics of the FAN algorithm [Fujiwara, et al, IEEE Trans. Comp., 1983]

- Strategy 1: In each step of the algorithm, determine as many signal values as possible that can be uniquely implied.
- Strategy 2: Assign a fault signal D or D' that is uniquely determined or implied by the fault in question.
- Strategy 3: When the D-frontier consists of a single gate, apply a unique
- Strategy 4: Stop the backtrace at a head line, and postpone the line justification for the head line to later.
- Strategy 5: Multiple backtracing (concurrent backtracing of more than one path) is more efficient than backtracing along a single path.
- Strategy 6: In the multiple backtrace, if an objective at a fanout point p has a contradictory requirement, stop the backtrace so as to assign a binary value to the fanout point.























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