

ABSTRACT

An integrated circuit internal signal monitoring apparatus comprises an integrated circuit. The integrated
5 circuit comprises signal change information generating means for detecting changes in a plurality of internal signals to be monitored in a circuit block, and for, when a level of at least one of the plurality of internal signals is changed, sequentially generating flags indicating the
10 internal signal whose level has been changed, the post-change level, and that the levels of other internal signals have not been changed; storage means for sequentially storing the flags generated by the signal change information generating means; and trigger generating means for
15 generating a write stop trigger signal for stopping a write operation of the flags to the storage means. The integrated circuit internal signal monitoring apparatus further comprises internal signal waveform reproduction means for reading the flags from the storage means after the generation
20 of the write stop trigger signal, and reproducing waveforms of the plurality of internal signals.