

KOURAN Segment-Journal Precise Recovery Architecture

Fine-grained side-effect segments journal destination/value updates and discard them on fault or drain them only after commit, avoiding whole-hyperblock recovery granularity.

IP-3636 · Source / reference evidence · RTL / reference evaluation

Function and architecture

- Fine-grained side-effect segments journal destination/value updates and discard them on fault or drain them only after commit, avoiding whole-hyperblock recovery granularity.

Integration summary

KOURAN Segment-Journal Precise Recovery Architecture provides the documented precise-state / recovery architecture responsibility: Fine-grained side-effect segments journal destination/value updates and discard them on fault or drain them only after commit, avoiding whole-hyperblock recovery granularity. Evaluate the exact KOURAN-IP-006 implementation and confirm its integration contract before using it inside the target design.

Technical record

Canonical identity	IP-3636
Native implementation identity	KOURAN-IP-006
Documented responsibility	Fine-grained side-effect segments journal destination/value updates and discard them on fault or drain them only after commit, avoiding whole-hyperblock recovery granularity.
Recorded evidence class	Source / reference evidence
Interface and physical parameters	Bound to the selected source/configuration; not inferred from name or family.

Delivery and release binding

- Exact implementation and configuration manifest
- Documented interfaces and clock/reset contract
- Available reference or verification collateral

- Recorded physical views where authorized and applicable
- Integration acceptance criteria and unresolved gate list

Confirm for the selected release: Source/configuration identity, Interface and dependencies, Verification evidence, Process/library where applicable, Authorized package and acceptance criteria.

Evidence and qualification

Architecture comparison + rtl/continuation/kouran_segment_journal.sv.

Evidence shown is the Bible record for this canonical implementation, not a fresh tool rerun. External foundry acceptance, silicon measurements, standards certification and unlisted interface/physical parameters are not inferred. Exact delivery and rights are agreed before licensing.

Canonical status: P1 / IMPLEMENTATION-BACKED ARCHITECTURE

Source basis: Bible v7.42 VERIFIED V29, IP-3636; 95.3 New canonical KOURAN records - 41 net-new identities (table 788, row 7).

Evaluation and licensing

Evaluation: Review the exact recorded implementation and agreed test scope. Production: Named-design rights for the agreed qualified release. Custom work: Target integration, verification or physical qualification. Rights, pricing, support and acceptance criteria are agreed for the exact scope.

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