



RAMTERA

PRODUCT DOCUMENTATION · PHYSICAL IMPLEMENTATION (PRE)

RAMTERA-PRE-DEP

Deployment and System Requirements

Workstation to farm, with distributed timing on your own hosts

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PRE Deployment and System Requirements

PRE deploys exactly like LVR: a self-contained Linux installation on your infrastructure, no cloud dependency, no outbound network traffic, no data path to Ramtera. One document difference matters: PRE includes a GUI, so a desktop environment is required for interactive work — batch needs none.

Linux x86-64 supported platform	0 outbound connections at runtime	Qt GUI for interactive; none needed for batch	multi-host timing via your ssh or batch queue
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System requirements

Item	Requirement
Operating system	64-bit Linux (x86-64), current LTS distributions; the engineering reference environment is Ubuntu 24.04 with GCC 13 runtimes
CPU	4 cores minimum; analysis stages scale with cores via the worker pool (thread count is a command-line/Tcl setting)
Memory	workload dependent; the 50,000-cell placement reference runs comfortably on a workstation-class machine — sizing guidance for your designs is part of evaluation onboarding
GUI	standard Linux desktop (X11/Wayland) with Qt runtime — bundled; batch mode runs headless
Network	none required; for distributed multi-corner timing, ordinary secure-shell reachability or a batch-queue client to your own hosts — traffic stays inside your network

Installation, licensing, distribution

Tarball unpack, no root, no system changes. Node-locked license file from hostname + hardware address, same onboarding as LVR; floating pools on industry-standard license-manager infrastructure for enterprises. Distributed timing needs no agent installation on remote hosts: PRE launches its own binary there over your secure-shell or queue, and the regression suite ships a local shim so the distributed path can be validated on a single machine before touching the farm.

FARM INTEGRATION — Scheduler note: distributed timing submits synchronous jobs; size the way count (-remoteHost) to your queue's interactive limits. The same command falls back to local fork or in-process analysis when no hosts are configured.

About Ramtera

Ramtera Inc. (Delaware, USA), with R&D at Ramtera Design Automation India Pvt Ltd (Bangalore), builds electronic design automation software for physical verification and physical implementation. LVR is Ramtera's physical verification engine (DRC, LVS, ERC, XOR, parasitic extraction); PRE is Ramtera's physical implementation environment (floorplanning, placement, clock tree synthesis, routing, timing analysis and optimization), built on industry-standard command conventions so existing flow scripts and operator skills transfer directly. The company holds granted patents and registered copyrights covering its engines.

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This document reports measurements from Ramtera's engineering environment (Ubuntu 24.04, GCC 13.3, Tcl 8.6) unless stated otherwise. Product behavior and figures are subject to change; no compatibility, certification, or endorsement by any third party is stated or implied.