

ORPG Product Data Flow - Build 12

Algorithm Task

Product Dependent 08 / 04 basevgrid Parameters **ELEVATION** Replay task

CPC no / Task no Name of task Task type (timing) [RPGC task init]

Task Types* TASK ELEVATION BASED TASK_VOLUME_BASED TASK TIME BASED TASK RADIAL BASED TASK_EVENT_BASED

Product Data Store (lb)

43 ALRTPROD (73) VOLUME_DATA (WH) pri 255

alert paired

Buffer number Name of buffer (Prod code) Data timing [product_attr:type]

Warehoused / priority 255 / alert paired * Defined in rpg_port.inc & rpg_port.h Data Types*

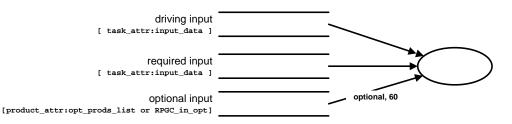
Non-Product Data (lb)

UNDEFINED_DATA ELEVATION DATA DUAUSERSEL VOLUME DATA RADIAL DATA

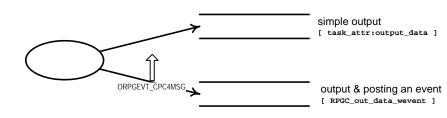
* Defined in rpg port.inc & rpg port.h

Old Definitions: ELEVATION_BASED VOLUME_BASED TIME_BASED RADIAL_BASED EVENT_BASED

Data Input (WAIT_ALL form)



Data Output



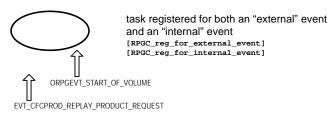
DEMAND_DATA

TIME_DATA

REQUEST_DATA

EXTERNAL DATA

Event Registration



"External" events defined in orpgevt.inc and orpgevt.h

"Internal" events defined in rpg_port.inc and rpg_port.h

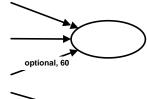
Timer Registration

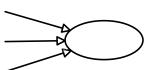


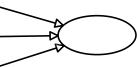
task registered for a named timer service [RPGC_reg_timer]

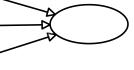
Timer Services defined in a304.inc

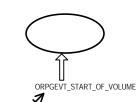
Representations of Data Driven and Event Driven Tasks











prcpprod

Data driven task with driving input (WAIT_ALL form) [RPGC_wait_act] task executes with driving input available and a request for an output. The algorithm blocks for a limited time when reading optional input. (Most algorithms are of this type)

- must have task type other than EVENT_BASED
- may also be registered for events

Data driven task with no driving input (WAIT_ANY form) [RPGC_wait_for_any_data] task executes on availability of any one input. Algorithm responsible for determining input sequence (vol and elevation). (Several algorithms use this)

- must have task type other than EVENT_BASED
- may also be registered for events

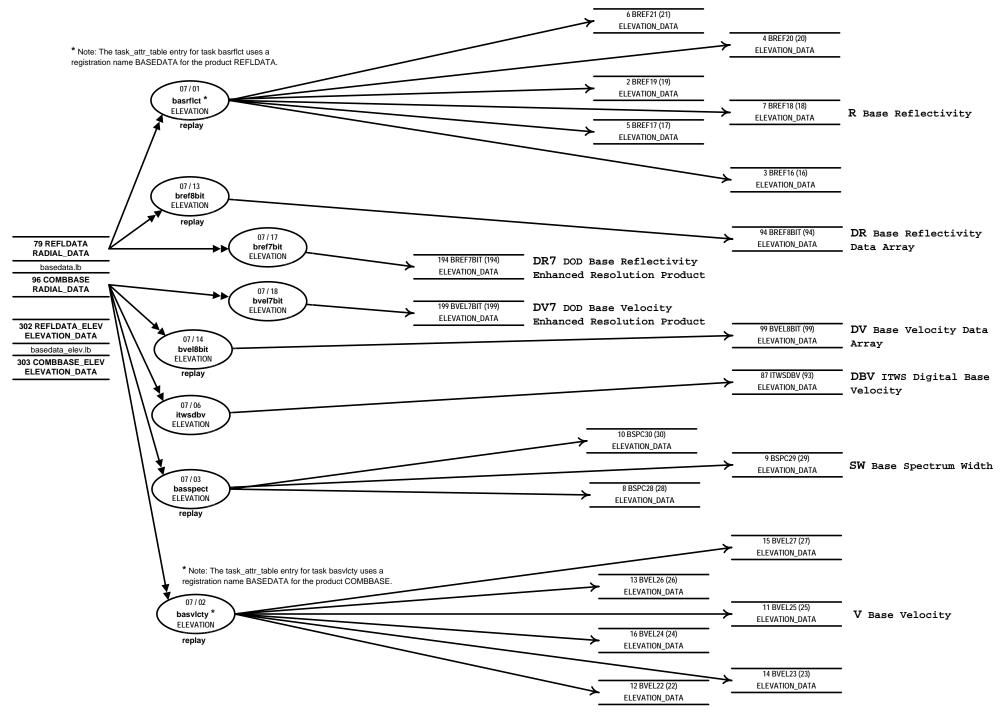
Event driven task [RPGC_wait_for_event] [RPGC_task_init] task executes on receiving a registered event. (Generally used in algorithms having no product data inputs.)

- task type EVENT_BASED if no product data inputs
- with non-driving inputs (WAIT_ANY form), task type appropriate for input data
- must be registered for at least one event

Note: a task may block until another task is active. [RPGC_wait_for_task] This is only used by one data driven task that initially blocks until another algorithm task is launched. This feature is not generally useful and can be ignored.

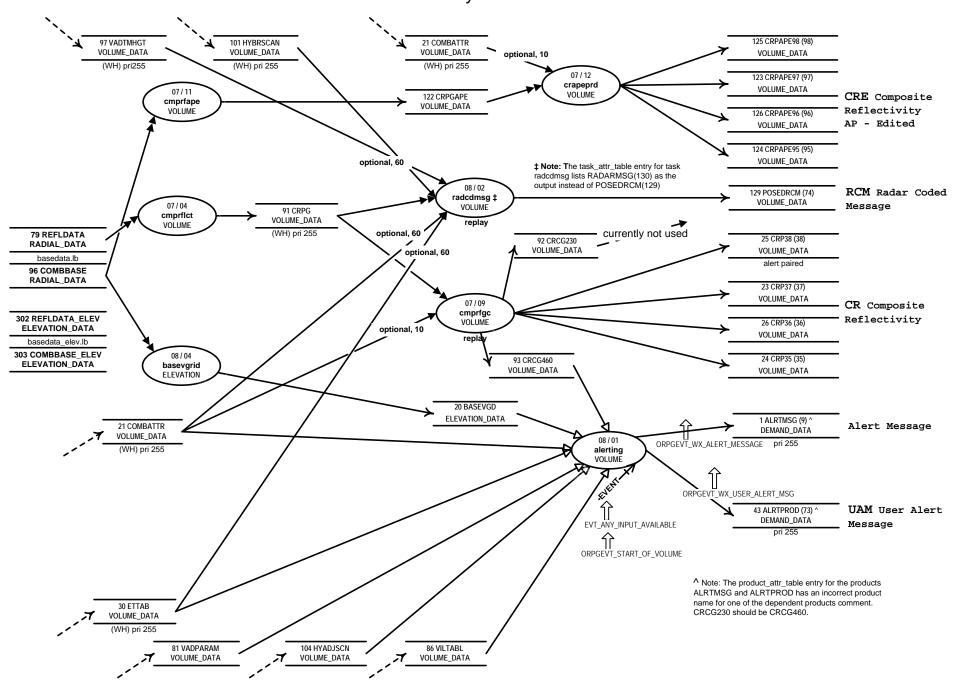


Base Products - ORPG Build 12



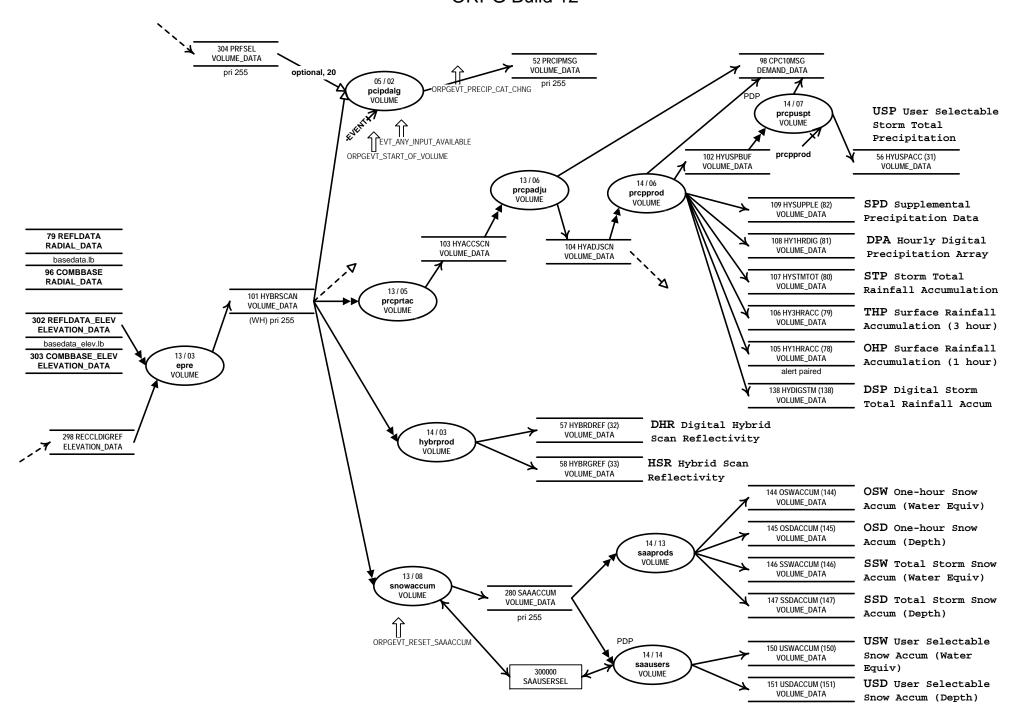


Alerting, Radar Coded Message, and Composite Reflectivity - ORPG Build 12



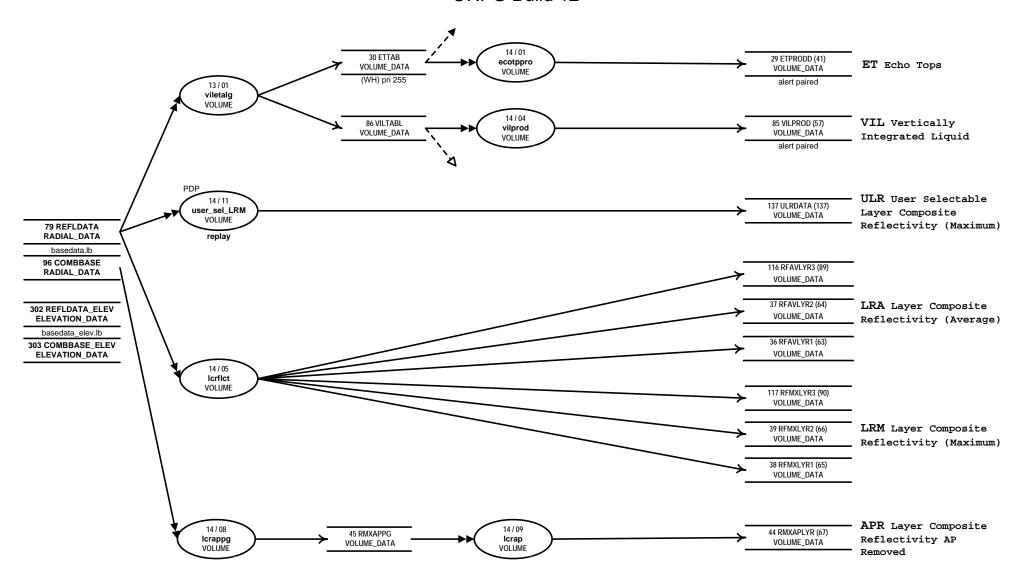


Precipitation and Snow Products derived from EPRE ORPG Build 12



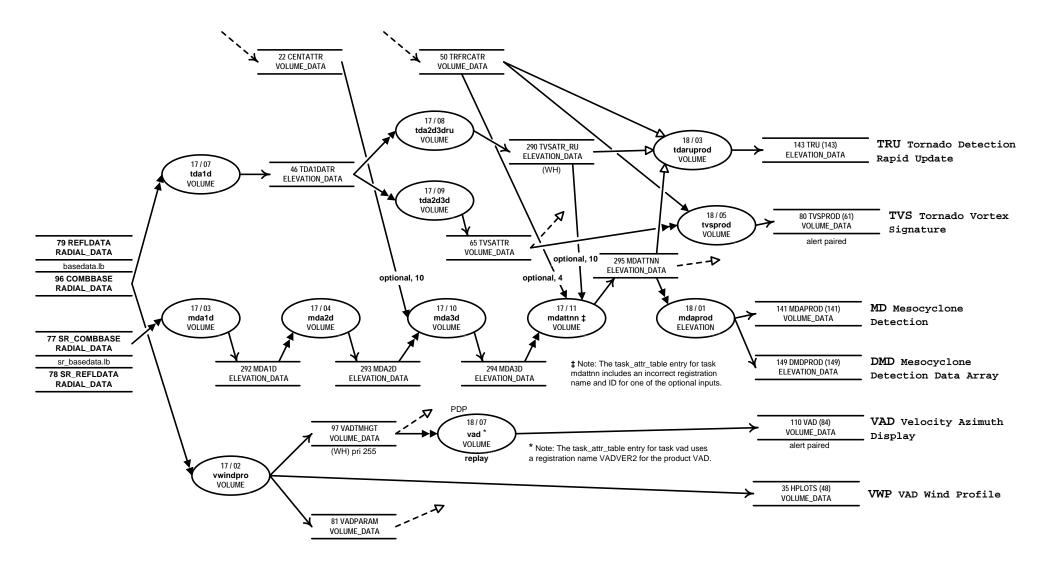


Precipitation Products not derived from EPRE ORPG Build 12



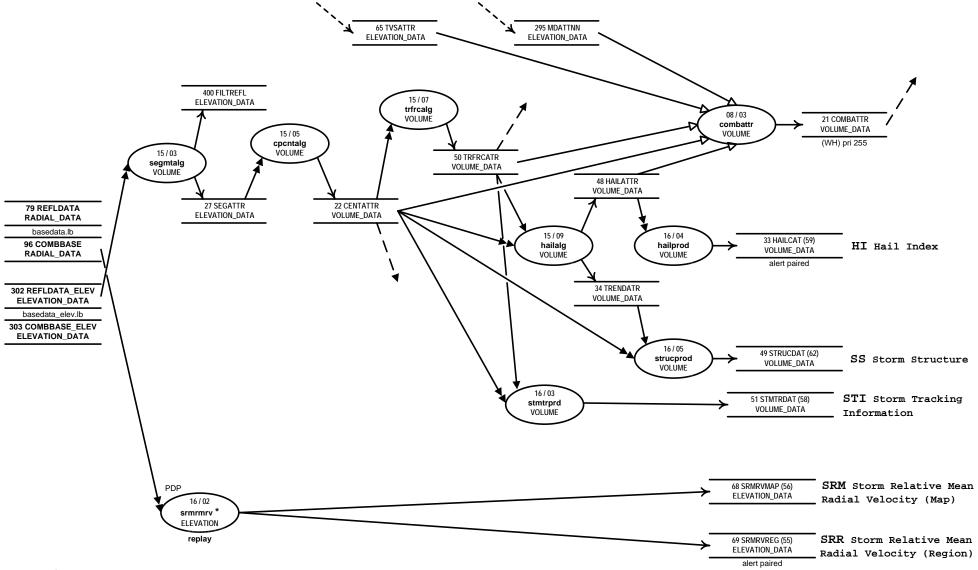


Kinematic Products (Mesocyclone, Tornado, and VAD) ORPG Build 12





Storm Products and Hail Index ORPG Build 12

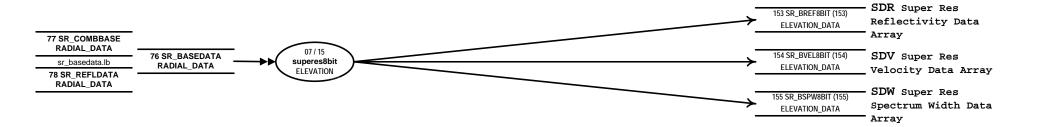


^{*} Note: The task_attr_table entry for task srmrmrv uses a registration name BASEDATA for the product COMBBASE.



Super Resolution Products ORPG Build 12

Products on this page have corresponding products using the original base data.



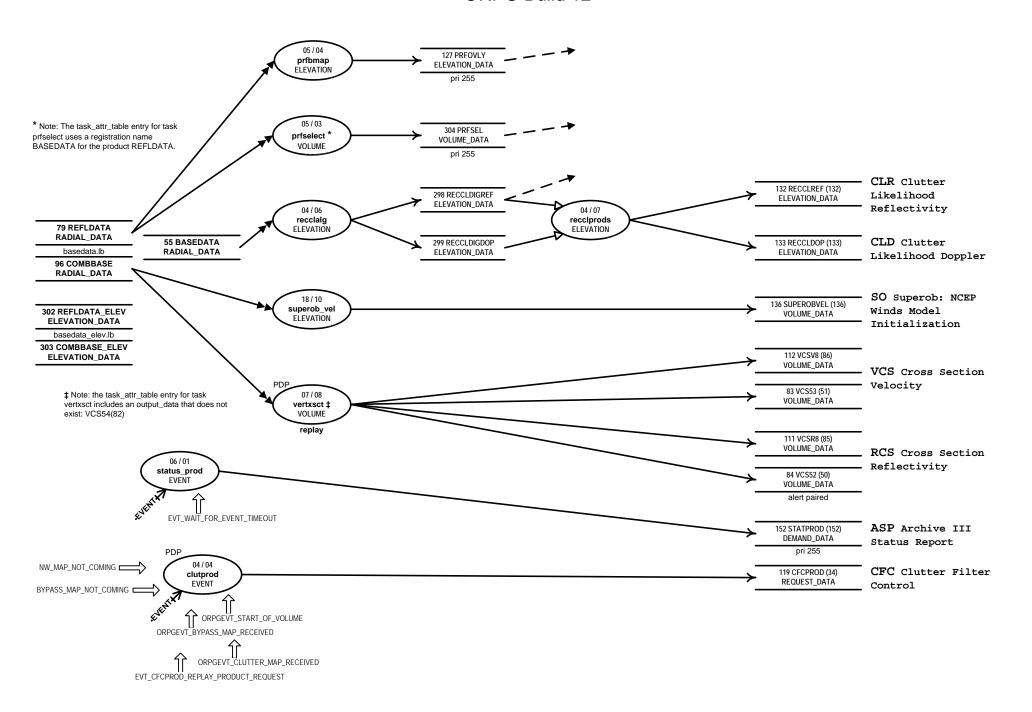
306 DUALPOL_COMBBASE RADIAL_DATA

dp_basedata.lb

307 DUALPOL_REFLDATA RADIAL_DATA

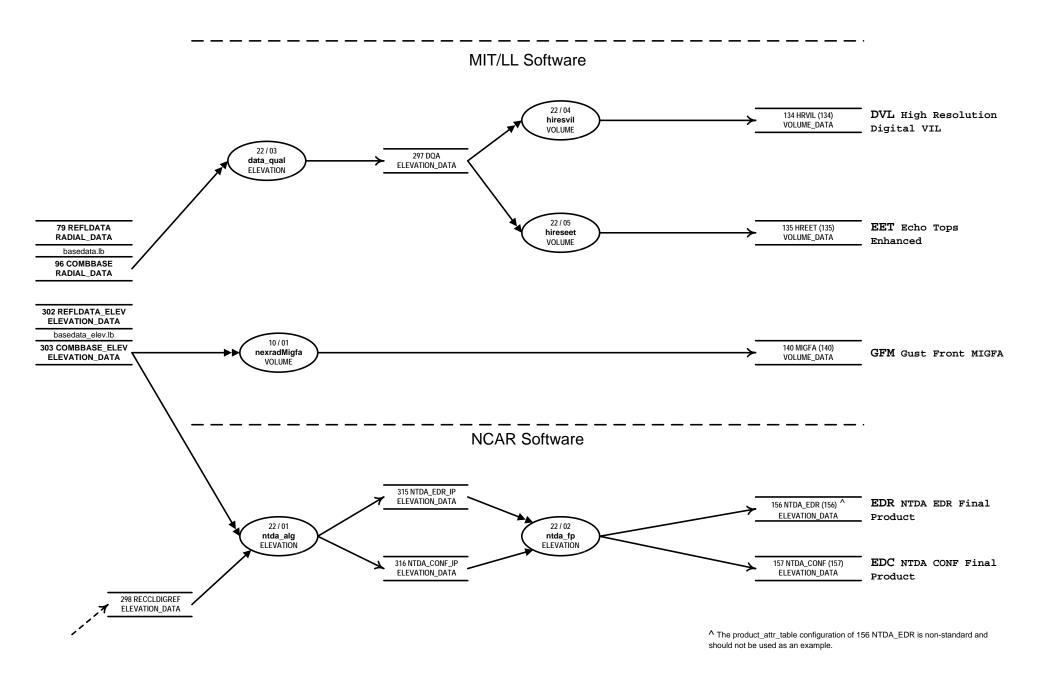


Other Data (Super Ob, Cross Section, Clutter, etc.) ORPG Build 12



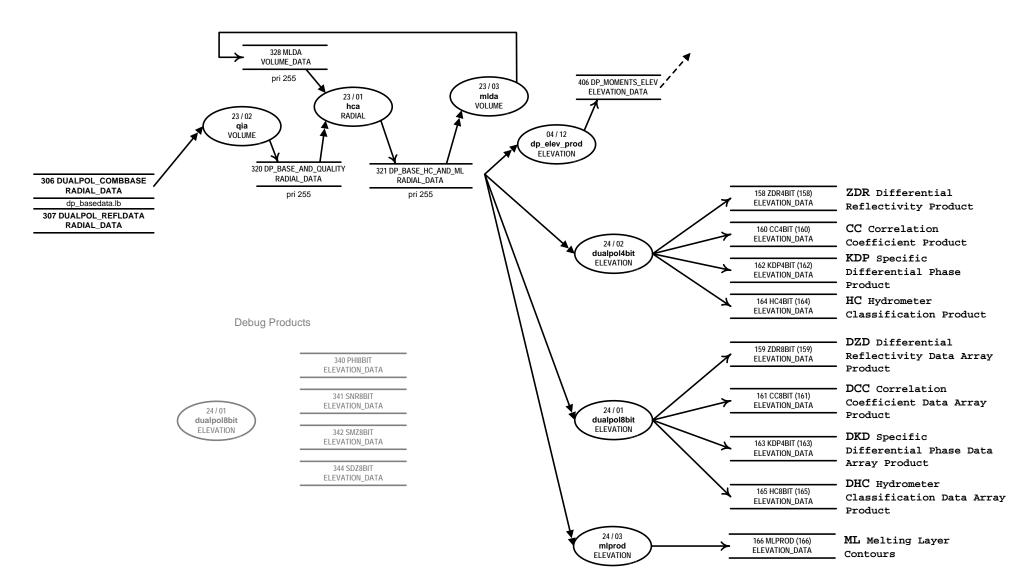


Proprietary Products - ORPG Build 12 (Removed from Public Edition of CODE)





Dual Pol Products Derived from HCA ORPG Build 12



Note: Product Data Names are Subject to Change

noblis.

Dual Pol Precip Products - ORPG Build 12 Derived from QPERATE and DP_BASEDATA_ELEV

