In the z14 server, the Top Exit I/O Cabling feature (FC 7942) is available for radiator-cooled (air-cooled) models and water-cooled models. For more information, see *IBM 3906 Installation Manual for Physical Planning,* GC28-6965, and 10.3, “Physical planning” on page 398.

2.1.5 PCIe I/O drawer

As shown in Figure 2-4, each PCIe I/O drawer (up to five) has 38 slots each to support the PCIe I/O infrastructure with a bandwidth of 16 GBps and includes the following features:

- A total of 32 I/O cards that are spread over 4 I/O domains.
- Four PCIe switch cards that provide connectivity to the PCIe fanouts that are installed in the processor drawer. Each domain has a dedicated support partition (four per system) to manage the native PCIe card types that are installed in that domain.
- Two Flexible Support Processor (FSP) cards that are used to control the drawer function.
- Redundant N+1 blowers and power supplies.

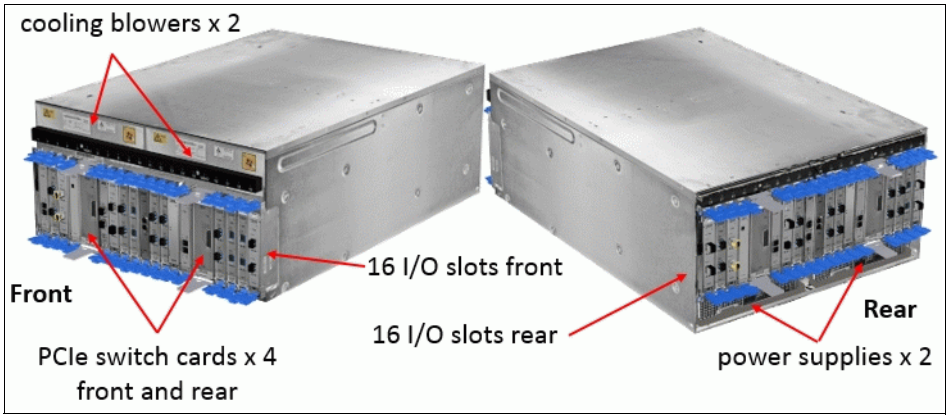

Figure 2-4 PCIe I/O drawer front and rear view

PCIe I/O infrastructure

The PCIe I/O infrastructure uses the PCIe fanout that is installed in the processor (CPC) drawers to connect to the PCIe I/O drawer, which can include the following features:

- New features FICON Expresss16+ two port card, long wavelength (LX) or short wavelength (SX), which contains two physical channel IDs (PCHIDs)
- FICON Express features (only for a carry-forward MES):
  - FICON Express16S two port card, long wavelength (LX) or short wavelength (SX), which contains two PCHIDs
  - FICON Express8S two port card, long wavelength (LX) or short wavelength (SX), which contains two PCHIDs
- Open Systems Adapter (OSA)-Express7S 25GbE Short Reach (SR) - New feature
- Open System Adapter (OSA)-Express6S:
  - OSA-Express6S 10 Gb Ethernet one port card, Long Reach (LR) or Short Reach (SR), which contains one physical channel ID PCHID
  - OSA-Express6S Gb Ethernet two port card, LX or SX, which contains one PCHID
  - OSA-Express6S 1000BASE-T Ethernet, two port card, RJ-45, which contains one PCHID