► Each DS8886F and DS8886 CPC can have 8 - 24 processor cores, and 64 - 1,024 GB of processor memory, for 128 GB - 2048 GB of total system memory.

► Each DS8884F and DS8884 CPC has 6 - 12 processor cores and can have 32 - 128 GB of processor memory, for 64 GB - 256 GB of total system memory.

Both CPCs in a DS8880 system share the system workload. The CPCs are redundant, and either CPC can fail over to the other CPC if a failure occurs, or for scheduled maintenance or upgrade tasks. The CPCs are identified as CPC 0 and CPC 1. A logical partition in each CPC runs the AIX V7.*x* operating system and storage-specific LIC. This logical partition is called the *storage node*. The storage servers are identified as *Node 0* and *Node 1* or *server0* and *server1*.

Similar to earlier generations of the IBM DS8000 series, the DS8880 consists of one base frame, and optional expansion frames. The CPCs reside in the base frame, and can be upgraded with additional processor cores and system memory to accommodate growing performance, or when additional storage capacity or host connectivity is required.

Upgrades from the smallest to the largest configuration in terms of system memory, processors, storage capacity, and host attachment can be performed concurrently.

> **Note:** The DS8884, DS8884F, DS8886, DS8886F, and DS8888F hardware platforms are specific to each configuration. Upgrades are not supported from one hardware platform to another.

2.2 DS8880 configurations and models

This section presents the current DS8880 configurations and models. The DS8880 storage systems are associated with machine type 283x for Hybrid family, or 533x for All-flash family models. The last digit of the machine type corresponds to the length of warranty option chosen, where *x* equals the number of years. DS8880 offers a one-year, two-year, three-year, or four-year warranty period. Expansion frames must have the same machine type as the base frame. The main variations between models are the combinations of CPCs, I/O enclosures, storage enclosures, disks, and direct current uninterruptible power sources (DC-UPSs).

> **Note:** The IBM DS8882F Rack Mounted system has several hardware components that slightly differ from those presented here, and is covered in detail in the IBM Redbooks publication *Introducing the IBM DS8882F Rack Mounted Storage System*, REDP-5505.