**U.S. NAVY F-4S Phantom II**

The F-4 is a carrier jet fighter developed by the American company McDonnell Douglas. Known as the "All Weather Phantom," the aircraft is capable of high-speed, high-altitude combat and is equipped with advanced electronic systems.

**Engine Specifications**

- **Type:** Afterburning turbojet engine
- **Model:** AN/AJ-20
- **Configuration:** Canopy-mounted, single-spar, single-stage wing, twin-tailed, and twin-engine configuration.
- **Max Speed:** Mach 2.2 (over 2,000 mph)
- **Range:** Over 1,500 nautical miles
- **Armament:** Standard armament includes AIM-9 Sidewinder and AIM-7 Sparrow missiles.

**Deployment and Operation**

- **Home Bases:** Various U.S. Navy and Marine Corps bases worldwide.
- **Primary Use:** Exclusive use by the U.S. Navy and the U.S. Marine Corps.
- **Special Features:** Advanced avionics, including radar and ECM capabilities.

**Historical Notes**

- The F-4 was first flown in 1960 and entered service with the U.S. Navy in 1962.
- It has been in service for over 50 years and remains in active use today.
- The F-4 is known for its agility and long range, making it a versatile fighter.

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**Real Aircraft Specifications**

- **Dimensions:**
  - Length: 68 ft 6 in
  - Wing span: 53 ft 0 in
  - Height: 17 ft 8 in
- **Weights:**
  - Empty: 26,000 lb
  - Maximum takeoff: 54,000 lb
- **Engines:**
  - Afterburning turbojet engines
  - **AN/AJ-20**
- **Armament Options:**
  - AIM-9 Sidewinder
  - AIM-7 Sparrow

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**Design Concept**

- **Weight and Balanced Design:**
  - Balanced for control at all speeds and altitudes.
- **Aerodynamic Efficiency:**
  - Optimized for high-speed performance.
- **Structural Integrity:**
  - Robust construction to withstand harsh operational environments.

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**Conclusion**

The F-4S Phantom II remains a cornerstone of the U.S. Navy’s fleet, offering unparalleled performance and versatility. Its legacy is a testament to the enduring capabilities of its design and the dedication of those who operate it.