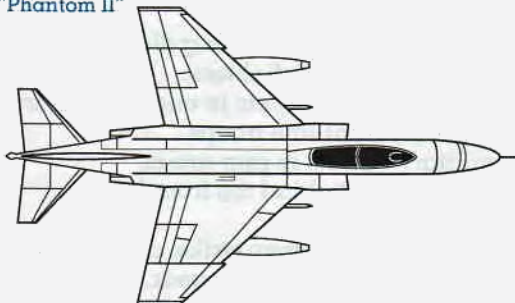


## US-BUILT WARPLANES

F-4E "Phantom II"



### F-4E "PHANTOM II"

*Designer:*

*Role:*

*Weight:*

*Engine(s):*

*Range:*

*Ceiling:*

*Max Speed:*

*Armament:*

*Radar Quality:*

McDonnell Douglas, USA

Two-seat fighter and  
strike fighter

27 tons

Two GE J79-17 turbojets;

35,800 lbs thrust

830 kilometers

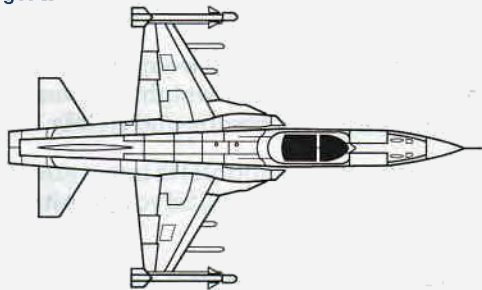
58,750'

1260 kts

20mm cannon, 4 missile  
recesses, 5 weapon pylons

Fair quality and range  
pulse radar

F-5E "Tiger II"



### F-5E "TIGER II"

*Designer:*

*Role:*

*Weight:*

*Engine(s):*

*Range:*

*Ceiling:*

*Max Speed:*

*Armament:*

*Radar Quality:*

Northrop, USA

Single-seat fighter and  
strike fighter

12 tons

Two GE J85-GE-21B turbojets;

10,000 lbs thrust

220 kilometers

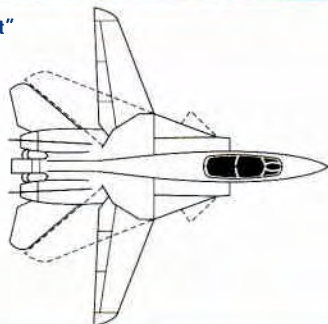
51,000'

950 kts

Two 20mm cannon, 5  
weapon pylons

Poor quality and range  
pulse radar

F-14D "Tomcat"



### **F-14D "TOMCAT"**

*Designer:*

*Role:*

*Weight:*

*Engine(s):*

*Range:*

*Ceiling:*

*Max Speed:*

*Armament:*

*Radar Quality:*

Grumman, USA

Two-seat fighter and  
interceptor

35 tons

two GE F110-400 turbofans;  
54-58,000 lbs thrust

1280 kilometers

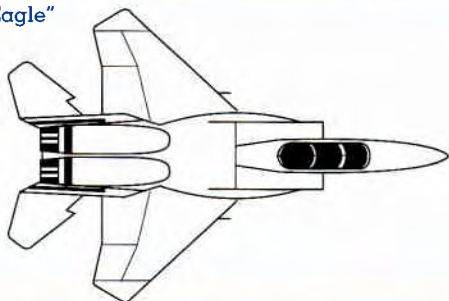
56,000'+

1350 kts with TF30, higher  
with F110

20mm cannon, 4 weapons  
pallets, 2 weapon pylons

Excellent range, high  
quality Doppler radar

F-15C "Eagle"



### **F-15C "EAGLE"**

*Designer:*

*Role:*

*Weight:*

*Engine(s):*

*Range:*

*Ceiling:*

*Max Speed:*

*Armament:*

*Radar Quality:*

McDonnell Douglas, USA

Single-seat fighter

22 tons

Two Pratt and Whitney F100-100  
turbofans; 47,660 lbs thrust

1200 kilometers

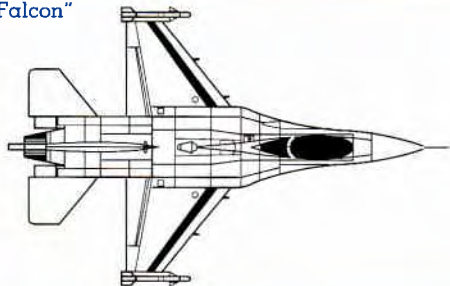
63,000'

1260 kts or greater

20mm cannon, 4 missile ejectors,  
4 weapon pylons, 2 FAST pallet  
points

Medium-range, high quality  
Doppler radar

F-16C "Falcon"



### **F-16C "FALCON"**

*Designer:*

*Role:*

*Weight:*

*Engine(s):*

*Range:*

*Ceiling:*

*Max Speed:*

*Armament:*

*Radar Quality:*

General Dynamics, USA

Single-seat fighter and  
strike fighter

12.5 tons

One Pratt and Whitney F100-200  
turbofan; 23,830 lbs thrust

540 kilometers

50,000'+

1190 kts

20mm cannon, 7 weapon pylons  
Medium-range, high-quality  
Doppler radar

F/A-18A "Hornet"



### F/A-18A "HORNET"

*Designer:*

*Role:*

*Weight:*

*Engine(s):*

*Range:*

*Ceiling:*

*Max Speed:*

*Armament:*

*Radar Quality:*

McDonnell Douglas/  
Northrop, USA  
Single-seat fighter and  
strike fighter  
18 tons  
Two GE F404-400 turbofans;  
32,000 lbs thrust  
740 kilometers  
50,000'  
1050 kts  
20mm cannon, 9 weapon  
pylons  
Medium-range, high quality  
Doppler radar

A-6E "Intruder"



### A-6E "INTRUDER"

*Designer:*

*Role:*

*Weight:*

*Engine(s):*

*Range:*

*Ceiling:*

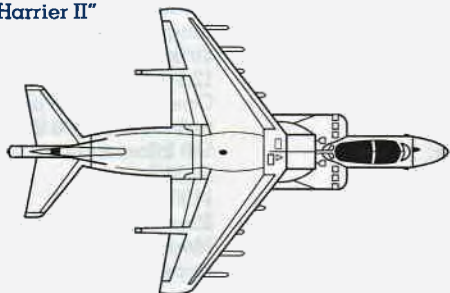
*Max Speed:*

*Armament:*

*Radar Quality:*

Grumman, USA  
Two-seat attack and interdiction  
bomber  
13 tons  
Two Pratt & Whitney J52-8A  
turbojets; 18,600 lbs thrust  
870 kilometers  
44,600'  
540 kts  
5 weapon pylons  
Poor, but superb air-to-ground  
weapons radars

AV-8B "Harrier II"



### AV-8B "HARRIER II"

*Designer:*

*Role:*

*Weight:*

*Engine(s):*

*Range:*

*Ceiling:*

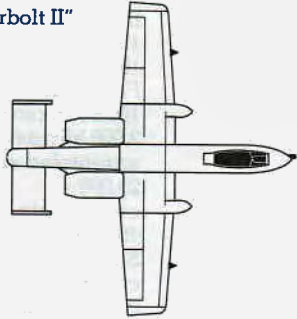
*Max Speed:*

*Armament:*

*Radar Quality:*

British Aerospace, UK and  
McDonnell Douglas, USA  
Single-seat S/VTOL fighter  
and strike fighter  
15 tons STOVL, 10 tons VTOL  
One Rolls Royce/Pegasus  
11-21E 22,000 lbs vectored thrust  
240 kilometers  
55,000'  
520 kts  
25mm cannon, 7 weapon pylons  
Poor, target acquisition is  
usually visual

A-10A "Thunderbolt II"



### A-10A "THUNDERBOLT II"

*Designer:*  
*Role:*

Fairchild Republic, USA  
Single-seat close ground support aircraft

*Weight:*  
*Engine(s):*

20 tons  
Two GE TF34-100 turbofans;  
18,130 lbs thrust

*Range:*  
*Ceiling:*  
*Max Speed:*

960 kilometers  
probably under 40,000'  
Unknown, probably less than 370 kts

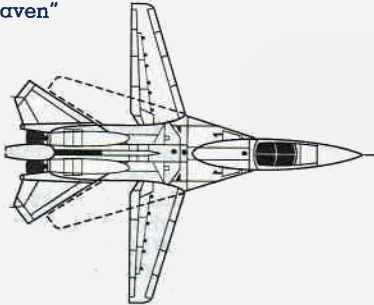
*Armament:*

7-barrel 30mm cannon,  
11 weapon pylons

*Radar Quality:*

Poor, air-to-ground avionics quite basic

EF-111A "Raven"



### EF-111A "RAVEN"

*Designer:*  
*Role:*

General Dynamics, USA  
Two-seat electronic warfare escort

*Weight:*  
*Engine(s):*

43.5 tons  
Two Pratt & Whitney TF30-3 turbofans; 37,000 lbs thrust

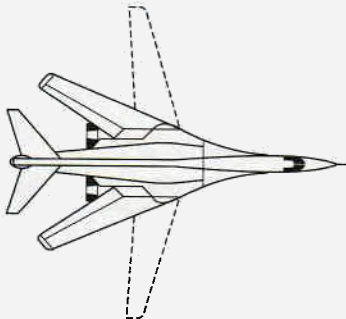
*Range:*  
*Ceiling:*  
*Max Speed:*  
*Armament:*

1,900 kilometers  
54,700'  
1020 kts

*Radar Quality:*

ALQ-99E electronic warfare system, no other weapons  
Medium/long-range, high quality pulse and Doppler

B-1B Bomber



### B-1B BOMBER

*Designer:*  
*Role:*  
*Weight:*  
*Engine(s):*

Rockwell International, USA  
Four-man strategic bomber  
225 tons with internal load only  
Four GE F101-102 turbofans;  
120 lbs thrust

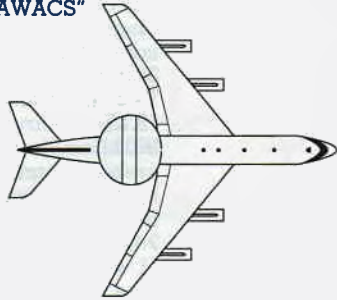
*Range:*  
*Ceiling:*  
*Max Speed:*  
*Armament:*

5,900 kilometers  
Unknown, probably under 50,000'  
725 kts

*Radar Quality:*

37.5 ton capacity bomb bay,  
29.5 tons on external mounts  
Medium-range, high quality  
Doppler radar

E-3C Sentry "AWACS"



### **E-3C SENTRY "AWACS"**

*Designer:*

*Role:*

*Weight:*

*Engine(s):*

*Range:*

*Ceiling:*

*Cruise Speed:*

*Maximum Speed:*

*Armament:*

*Radar Quality:*

Boeing, USA

15 to 17-man AEW&C

162.5 tons

Four Pratt & Whitney TF33-100/

100A turbofans; 84,000 lbs thrust

3,000 kilometers (11 hours

unrefueled endurance)

29,000'+

over 350 kts

460 kts

Surveillance radar,

communications, air traffic

control, and electronic defenses;

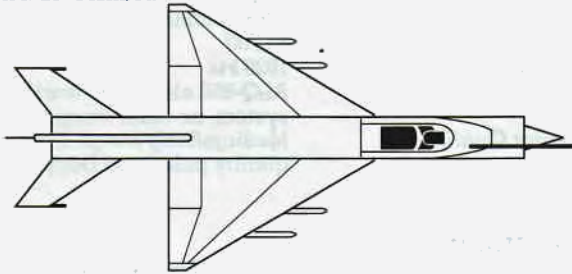
weapon pylons may be added.

Excellent range and

quality radars.

## **SOVIET-BUILT WARPLANES**

MiG-21 "Fishbed"



### **MIG-21 "FISHBED"**

*Designer:*

*Role:*

*Weight:*

*Engine(s):*

*Range:*

*Ceiling:*

*Max Speed:*

*Armament:*

*Radar Quality:*

Mikoyan-Gurevich, USSR

Single-seat fighter

9 tons

One Tumansky R-11F2S-300

turbofan; 14,550 lbs thrust

630 kilometers

59,000' (often only 50,000')

1220 kts

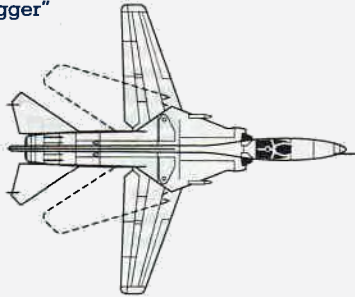
Two 23mm cannon, 4 weapon

pylons, 1 fuel tank pylon

Very short-range, low quality

pulse radar

MiG-23 "Flogger"



### **MIG-23 "FLOGGER"**

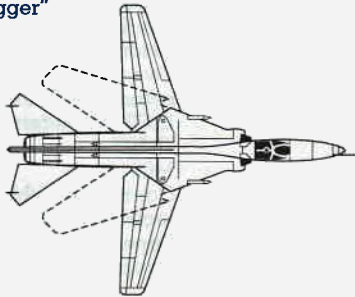
*Designer:*  
*Role:*  
*Weight:*  
*Engine(s):*

*Range:*  
*Ceiling:*  
*Max Speed:*  
*Armament:*

*Radar Quality:*

Mikoyan-Gurevich, USSR  
Single-seat fighter  
16 tons  
One Tumansky R-29B turbofan;  
27,500 lbs thrust  
900 kilometers  
61,000'  
1190 kts  
Two 23mm cannon, 4 weapon  
pylons, 1 fuel tank pylon  
Very poor, short-range range  
pulse radar

MiG-27 "Flogger"



### **MIG-27 "FLOGGER"**

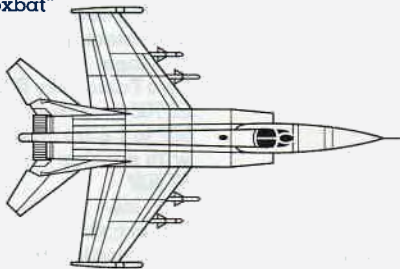
*Designer:*  
*Role:*  
*Weight:*  
*Engine(s):*

*Range:*  
*Ceiling:*  
*Max Speed:*  
*Armament:*

*Radar Quality:*

Mikoyan-Gurevich, USSR  
Single-seat strike fighter  
22 tons  
One Tumansky R-29 turbofan;  
25,353 lbs thrust  
400 kilometers  
52,500'  
925 kts  
One 23mm cannon, 5 weapon  
pylons, 2 bomb racks  
Very poor, very short-range  
pulse radar

MiG-25 "Foxbat"



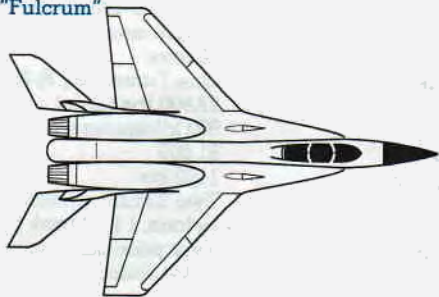
### **MIG-25 "FOXBAT"**

*Designer:*  
*Role:*  
*Weight:*  
*Engine(s):*

*Range:*  
*Ceiling:*  
*Max Speed:*  
*Armament:*  
*Radar Quality:*

Mikoyan-Gurevich, USSR  
Single-seat interceptor  
40 tons  
Two Tumansky R-31 turbofans;  
48,500 lbs thrust  
1,100 kilometers  
80,000'  
1860 kts  
4 weapon pylons  
Medium quality, medium-range  
pulse radar

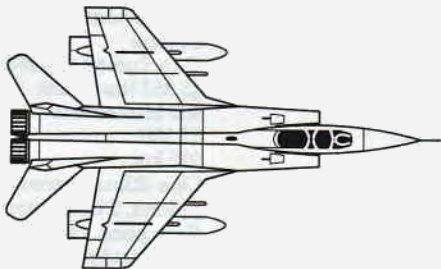
MiG-29 "Fulcrum"



### **MIG-29 "FULCRUM"**

**Designer:** Mikoyan-Gurevich, USSR  
**Role:** Single-seat fighter  
**Weight:** 18 tons  
**Engine(s):** Two Tumansky R-33D turbofans; 36,600 lbs thrust  
**Range:** 650 kilometers  
**Ceiling:** Probably 55-65,000'  
**Max Speed:** 1260 kts  
**Armament:** One multi-barrel cannon, 6 weapon pylons  
**Radar Quality:** Medium quality and range Doppler radar

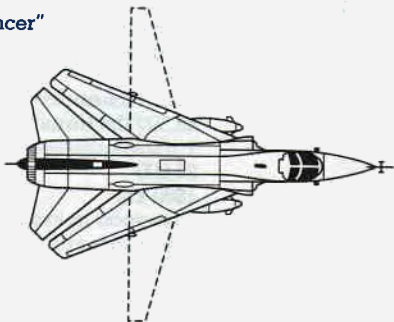
MiG-31 "Foxhound"



### **MIG-31 "FOXHOUND"**

**Designer:** Mikoyan-Gurevich, USSR  
**Role:** Single-seat interceptor  
**Weight:** 45 tons  
**Engine(s):** Two turbofans or turbojets, estimated thrust 50-60,000 lbs  
**Range:** 1,500 kilometers  
**Ceiling:** 75,500'  
**Max Speed:** 1400 kts  
**Armament:** Cannon possible, 4 missile recesses, 4 weapon pylons  
**Radar Quality:** Superior quality and range Doppler radar

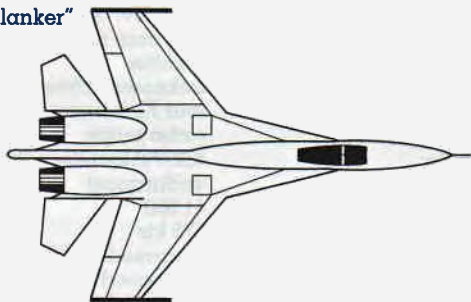
Su-24 "Fencer"



### **SU-24 "FENCER"**

**Designer:** Sukhoi, USSR  
**Role:** Double-seat strike fighter and interceptor  
**Weight:** 43.5 tons  
**Engine(s):** Two Tumansky R-29B turbofans; 50,700 lbs thrust  
**Range:** 300 to 1,800 kilometers (varies with mission profile and load)  
**Ceiling:** 57,400'  
**Max Speed:** 1400 kts  
**Armament:** 23mm cannon, 8 weapon pylons  
**Radar Quality:** Nil, avionics designed purely for air-to-ground role

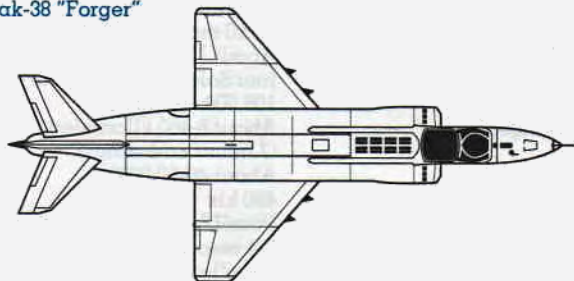
Su-27 "Flanker"



### **SU-27 "FLANKER"**

**Designer:** Sukhoi, USSR  
**Role:** Single-seat fighter  
**Weight:** 25 tons  
**Engine(s):** Two unknown turbojets; estimated 60,000 lbs thrust  
**Range:** 1,150 kilometers  
**Ceiling:** Unknown, probably 60,000' or more  
**Max Speed:** 1350 kts  
**Armament:** Probably a cannon, 6 weapon pylons  
**Radar Quality:** Above average quality and range Doppler radar

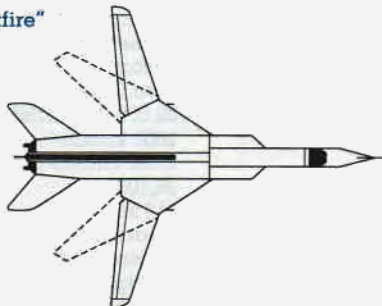
Yak-38 "Forger"



### **YAK-38 "FORGER"**

**Designer:** Yakovlev, USSR  
**Role:** Single-seat fighter  
**Weight:** 12 tons  
**Engine(s):** One Lyulka AL-21 vectored-thrust turbojet; 17,985 lbs thrust, plus two Koliesov liftjet engines  
**Range:** 370 kilometers  
**Ceiling:** 39,370'  
**Max Speed:** 550 kts  
**Armament:** 4 weapon pylons  
**Radar Quality:** Poor quality and range pulse radar

Tu-26 "Backfire"



### **TU-26 "BACKFIRE"**

**Designer:** Tupolev, USSR  
**Role:** Four-man bomber  
**Weight:** 61 tons  
**Engine(s):** Two upgraded Kuznetsov NK-144 turbofans; 88,180 lbs thrust  
**Range:** 5,500 kilometers  
**Ceiling:** 55,000'  
**Max Speed:** 970 kts  
**Armament:** Three heavy air-to-surface missiles or 13 tons of bombs  
**Radar Quality:** Fair, with excellent air-surface avionics



Tu-95D "Bear"



### **TU-95D "BEAR"**

*Designer:*

*Role:*

*Weight:*

*Engine(s):*

*Range:*

*Ceiling:*

*Max Speed:*

*Armament:*

*Radar Quality:*

Tupolev, USSR

7-12 man reconnaissance  
bomber

unknown, about 145-165 tons  
four Kuznetsov NK-12MV  
turbo props

8,250 kilometers (7 hours  
endurance)

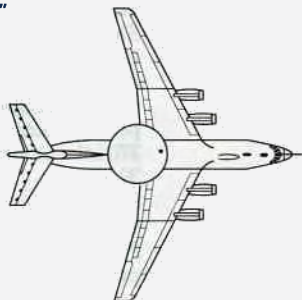
41,000'

475 kts

Unarmed

Very good long-range  
pulse radars

Il-76 "Mainstay"



### **IL-76 "MAINSTAY"**

*Designer:*

*Role:*

*Weight:*

*Engine(s):*

*Range:*

*Ceiling:*

*Max Speed:*

*Armament:*

*Radar Quality:*

Ilyushin, USSR

15-20 man AEW&C

About 150 tons

four Soloviev D-30KP turbofans;  
106,000 lbs thrust

About 6,400 kilometers  
(7 hours endurance)

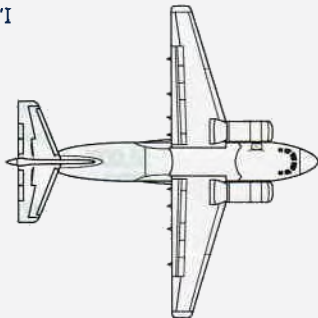
About 40-50,000'

460 kts

Possibly twin 23mm tail cannon,  
2-4 weapon pylons

Excellent long-range  
Doppler radars

An-72 "Coaler" I



### **AN-72 "COALER"**

*Designer:*

*Role:*

*Weight:*

*Engine(s):*

*Range:*

*Ceiling:*

*Max Speed:*

*Armament:*

*Radar Quality:*

Antonov, USSR

Three-seat air transport

28 tons

Two Lotarev D-36 turbofans;  
28,660 lbs thrust

1000 kilometers (max cargo) to  
3,800 kilometers (no cargo)

36,100'

410 kts

Unarmed; can carry 32  
passengers or 11 tons cargo

Navigational only