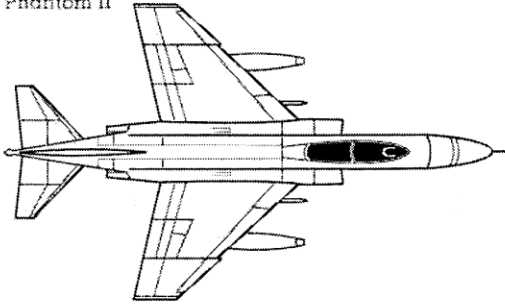


US-BUILT WARPLANES

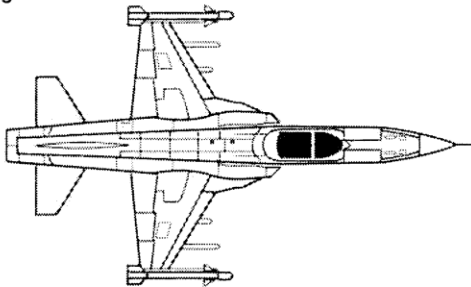
F-4E "Phantom II"



F-4E "PHANTOM II"

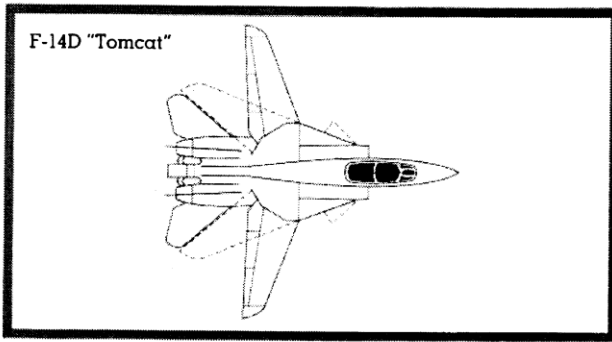
Designer: McDonnell Douglas, USA
Role: Two-seat fighter and strike fighter
Weight: 27 tons
Engine(s): Two GE J79-17 turbojets; 35,800 lbs thrust
Range: 830 kilometers
Ceiling: 58,750'
Max Speed: 1260 kts
Armament: 20mm cannon, 4 missile recesses, 5 weapon pylons
Radar Quality: Fair quality and range pulse radar

F-5E "Tiger II"



F-5E "TIGER II"

Designer: Northrop, USA
Role: Single-seat fighter and strike fighter
Weight: 12 tons
Engine(s): Two GE J85-GE-21B turbojets; 10,000 lbs thrust
Range: 220 kilometers
Ceiling: 51,000'
Max Speed: 950 kts
Armament: Two 20mm cannon, 5 weapon pylons
Radar Quality: Poor quality and range pulse radar



F-14D "TOMCAT"

Designer:
Role:

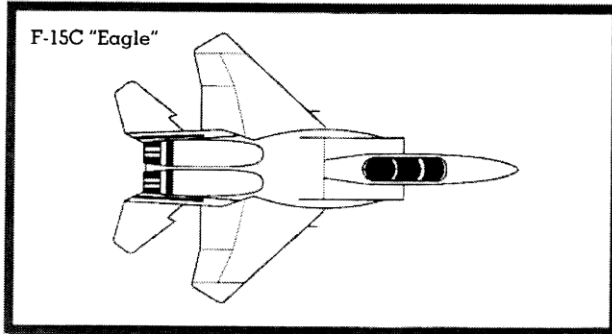
Weight:
Engine(s):

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"

Designer:
Role:

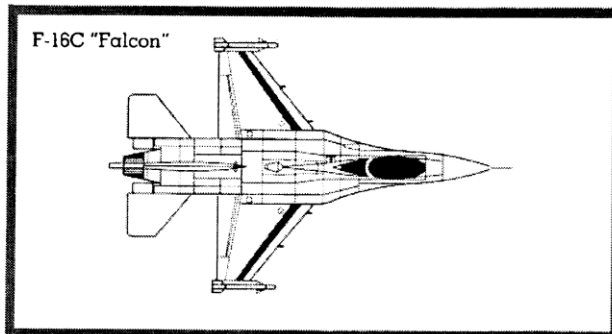
Weight:
Engine(s):

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"

Designer:
Role:

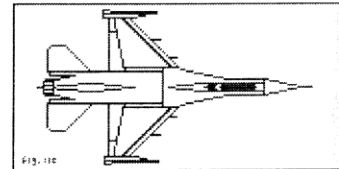
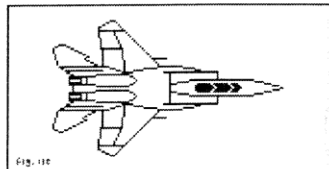
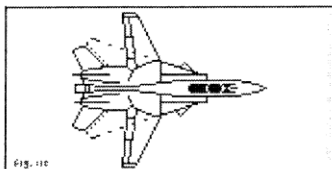
Weight:
Engine(s):

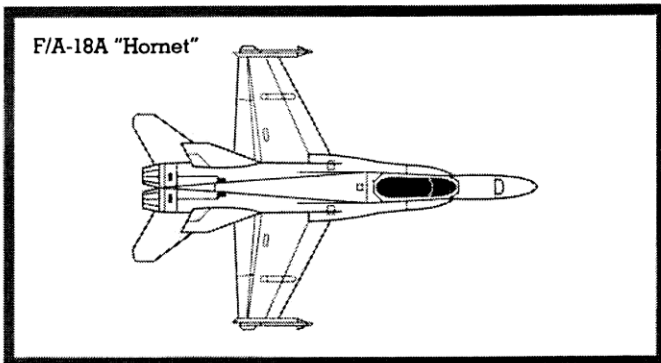
Range:
Ceiling:
Max Speed:

Armament:

Radar Quality:

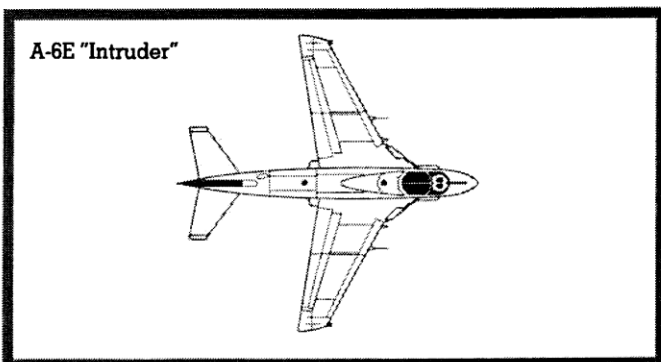
General Dynamics, USA
Single-seat fighter and
strike fighter
12.5 tons
One Pratt and Whitney F100-200
turbofan; 23,830 lbs thrust
540 kilometers
50,000'+
1190 kts
20mm cannon, 7 weapon pylons
Medium-range, high-quality
Doppler radar





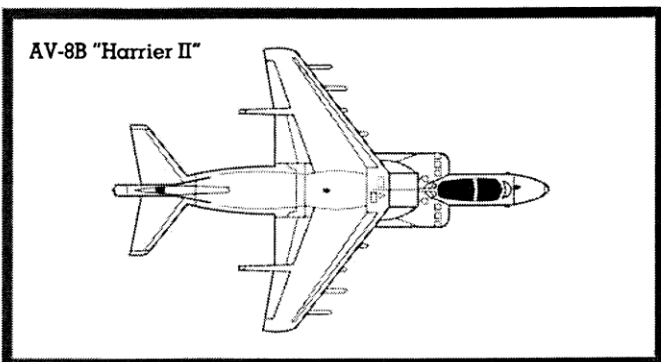
F/A-18A "HORNET"

Designer: McDonnell Douglas/
Northrop, USA
Role: Single-seat fighter and
strike fighter
Weight: 18 tons
Engine(s): Two GE F404-400 turbofans;
32,000 lbs thrust
Range: 740 kilometers
Ceiling: 50,000'
Max Speed: 1050 kts
Armament: 20mm cannon, 9 weapon
pylons
Radar Quality: Medium-range, high quality
Doppler radar



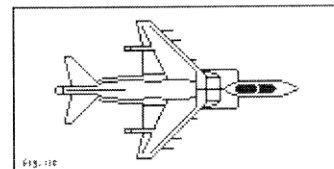
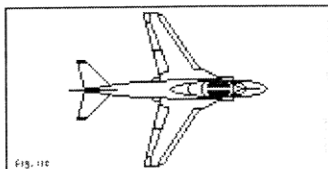
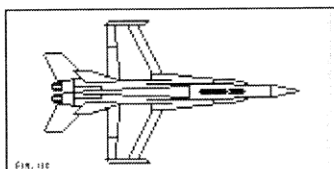
A-6E "INTRUDER"

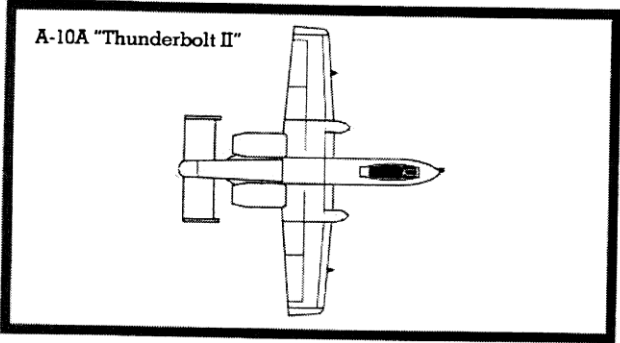
Designer: Grumman, USA
Role: Two-seat attack and interdiction
bomber
Weight: 13 tons
Engine(s): Two Pratt & Whitney J52-8A
turbojets; 18,600 lbs thrust
Range: 870 kilometers
Ceiling: 44,600'
Max Speed: 540 kts
Armament: 5 weapon pylons
Radar Quality: Poor, but superb air-to-ground
weapons radars



AV-8B "HARRIER II"

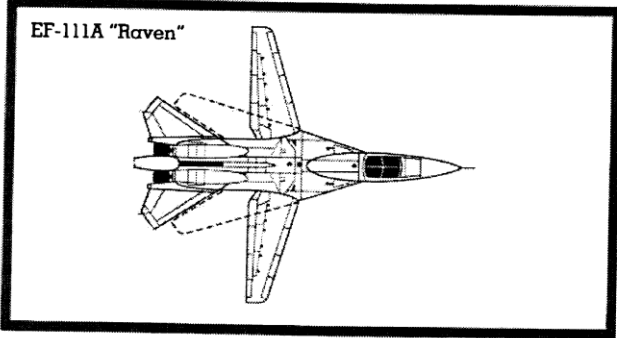
Designer: British Aerospace, UK and
McDonnell Douglas, USA
Role: Single-seat S/VTOL fighter
and strike fighter
Weight: 15 tons STOVL, 10 tons VTOL
Engine(s): One Rolls Royce/Pegasus
11-21E 22,000 lbs vectored thrust
Range: 240 kilometers
Ceiling: 55,000'
Max Speed: 520 kts
Armament: 25mm cannon, 7 weapon pylons
Radar Quality: Poor, target acquisition is
usually visual





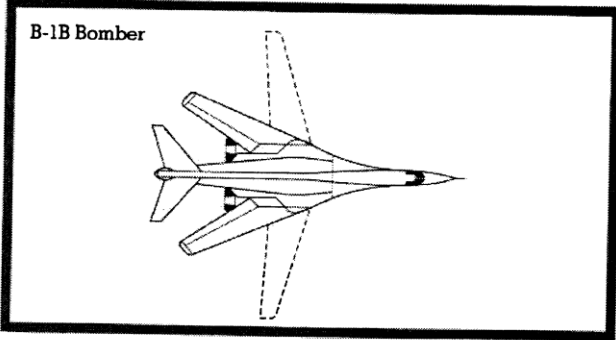
A-10A "THUNDERBOLT II"

Designer: Fairchild Republic, USA
Role: Single-seat close ground support aircraft
Weight: 20 tons
Engine(s): Two GE TF34-100 turbofans; 18,130 lbs thrust
Range: 960 kilometers
Ceiling: probably under 40,000'
Max Speed: Unknown, probably less than 370 kts
Armament: 7-barrel 30mm cannon, 11 weapon pylons
Radar Quality: Poor, air-to-ground avionics quite basic



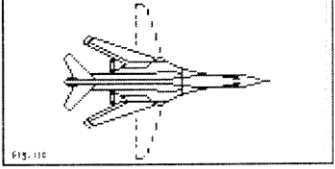
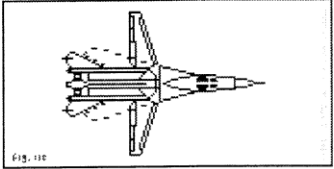
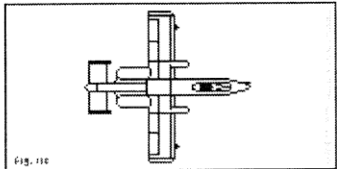
EF-111A "RAVEN"

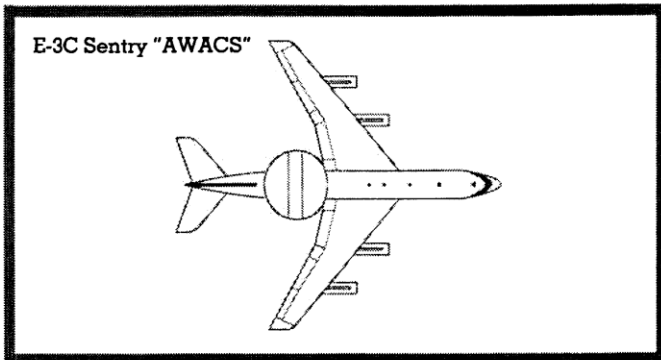
Designer: General Dynamics, USA
Role: Two-seat electronic warfare escort
Weight: 43.5 tons
Engine(s): Two Pratt & Whitney TF30-3 turbofans; 37,000 lbs thrust
Range: 1,900 kilometers
Ceiling: 54,700'
Max Speed: 1020 kts
Armament: ALQ-99E electronic warfare system, no other weapons
Radar Quality: Medium/long-range, high quality pulse and Doppler



B-1B BOMBER

Designer: Rockwell International, USA
Role: Four-man strategic bomber
Weight: 225 tons with internal load only
Engine(s): Four GE F101-102 turbofans; 120 lbs thrust
Range: 5,900 kilometers
Ceiling: Unknown, probably under 50,000'
Max Speed: 725 kts
Armament: 37.5 ton capacity bomb bay, 29.5 tons on external mounts
Radar Quality: Medium-range, high quality Doppler radar

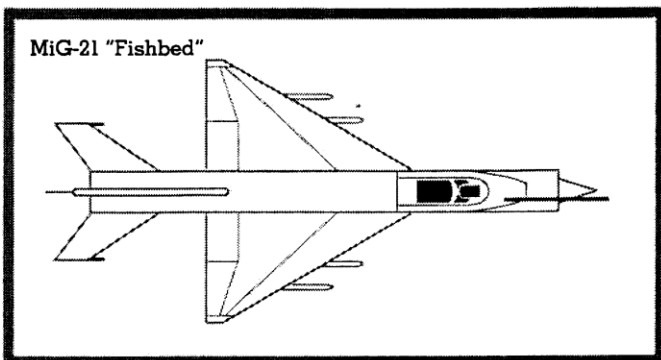




E-3C SENTRY "AWACS"

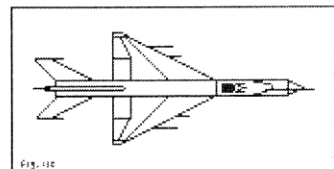
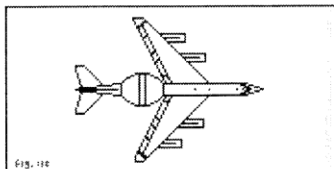
Designer: Boeing, USA
Role: 15 to 17-man AEW&C
Weight: 162.5 tons
Engine(s): Four Pratt & Whitney TF33-100/100A turbofans; 84,000 lbs thrust
Range: 3,000 kilometers (11 hours unrefueled endurance)
Ceiling: 29,000'+
Cruise Speed: over 350 kts
Maximum Speed: 460 kts
Armament: Surveillance radar, communications, air traffic control, and electronic defenses; weapon pylons may be added.
Radar Quality: Excellent range and quality radars.

SOVIET-BUILT WARPLANES

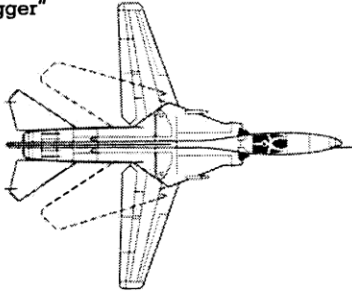


MIG-21 "FISHBED"

Designer: Mikoyan-Gurevich, USSR
Role: Single-seat fighter
Weight: 9 tons
Engine(s): One Tumansky R-11F2S-300 turbofan; 14,550 lbs thrust
Range: 630 kilometers
Ceiling: 59,000' (often only 50,000')
Max Speed: 1,220 kts
Armament: Two 23mm cannon, 4 weapon pylons, 1 fuel tank pylon
Radar Quality: Very short-range, low quality pulse radar



MiG-23 "Flogger"



MIG-23 "FLOGGER"

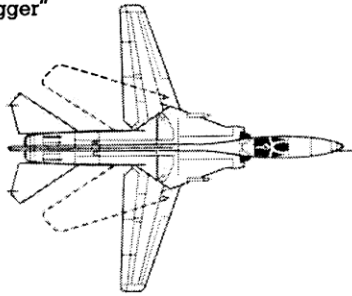
Designer:
Role:
Weight:
Engine(s):

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"

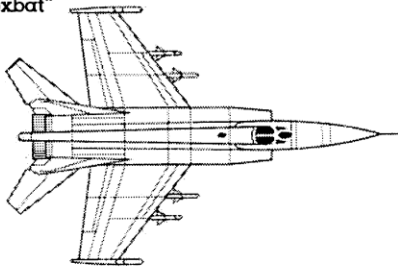
Designer:
Role:
Weight:
Engine(s):

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

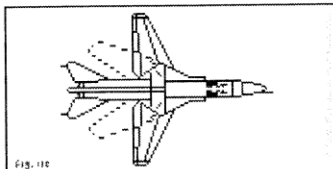


Fig. 112

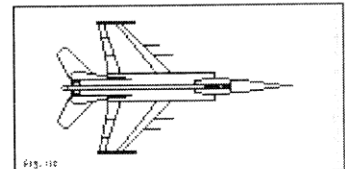
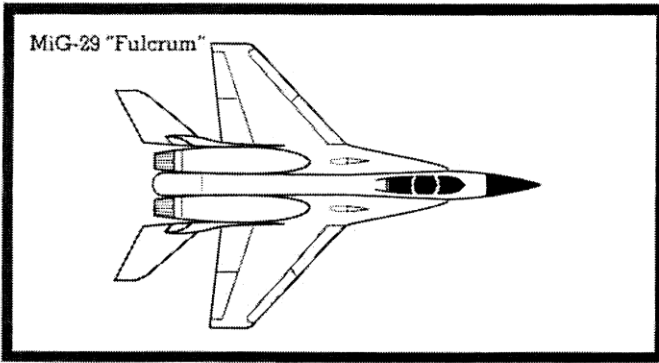
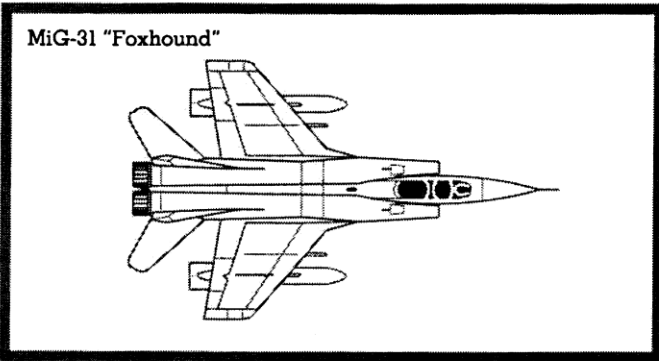


Fig. 113



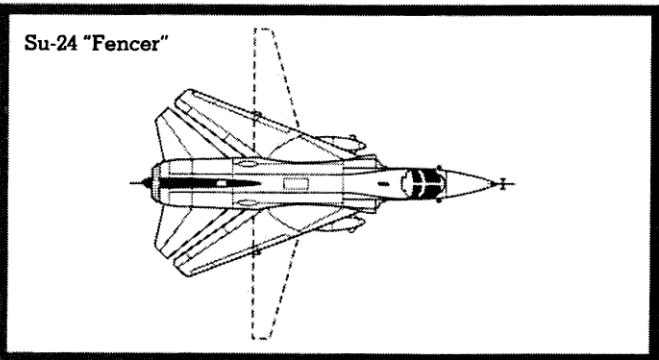
MiG-29 "FULCRUM"

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



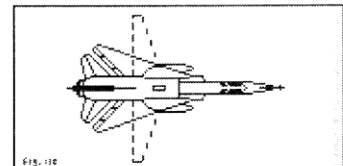
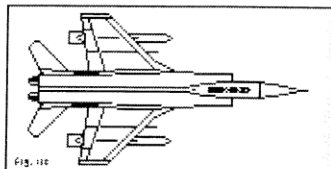
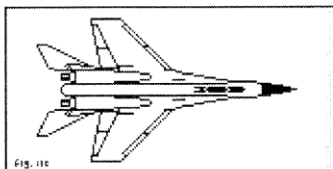
MiG-31 "FOXHOUND"

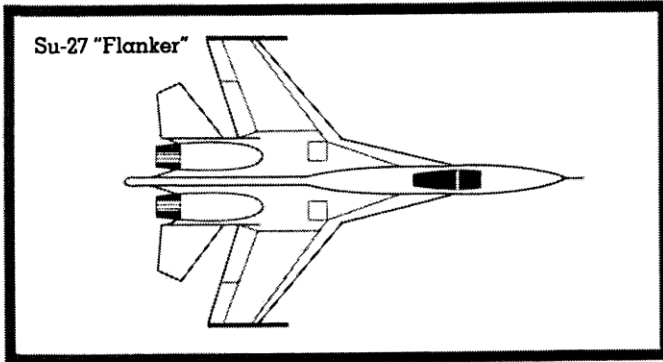
Designer: Mikoyan-Gurevich, USSR
Role: Single-seat interceptor
Weight: 45 tons
Engine(s): Two turbofans or turbojets, estimated thrust 50-60,000 lbs
Range: 1,500 kilometers
Ceiling: 75,500'
Max Speed: 1400 kts
Armament: Cannon possible, 4 missile recesses, 4 weapon pylons
Radar Quality: Superior quality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



SU-24 "FENCER"

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"

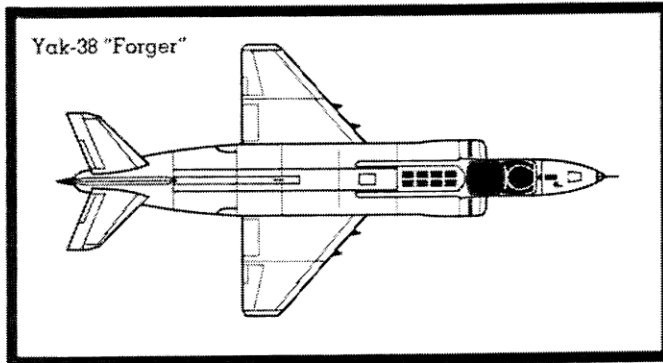
Designer:
Role:
Weight:
Engine(s):

Range:
Ceiling:

Max Speed:
Armament:

Radar Quality:

Sukhoi, USSR
Single-seat fighter
25 tons
Two unknown turbojets;
estimated 60,000 lbs thrust
1,150 kilometers
Unknown, probably 60,000'
or more
1350 kts
Probably a cannon, 6
weapon pylons
Above average quality
and range Doppler radar



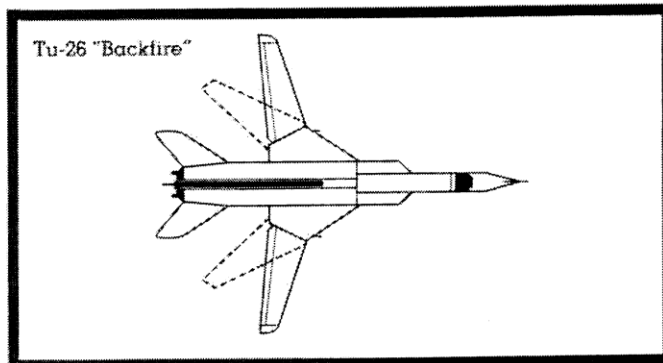
YAK-38 "FORGER"

Designer:
Role:
Weight:
Engine(s):

Range:
Ceiling:

Max Speed:
Armament:
Radar Quality:

Yakovlev, USSR
Single-seat fighter
12 tons
One Lyulka AL-21 vectored-
thrust turbojet; 17,985 lbs thrust,
plus two Koliesov liftjet engines
370 kilometers
39,370'
550 kts
4 weapon pylons
Poor quality and range
pulse radar



TU-26 "BACKFIRE"

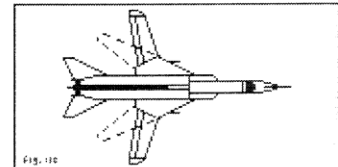
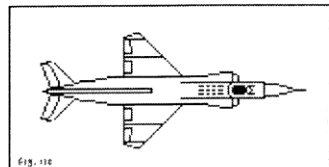
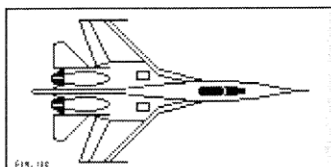
Designer:
Role:
Weight:
Engine(s):

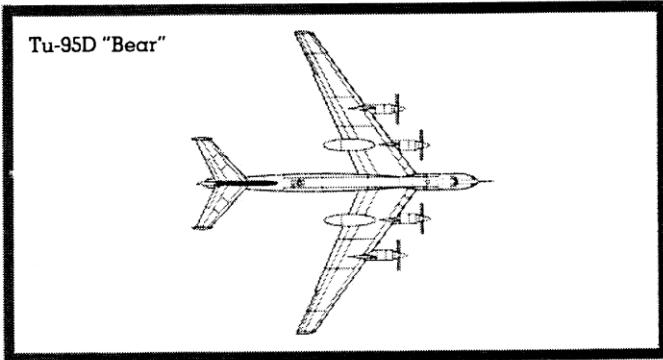
Range:
Ceiling:

Max Speed:
Armament:

Radar Quality:

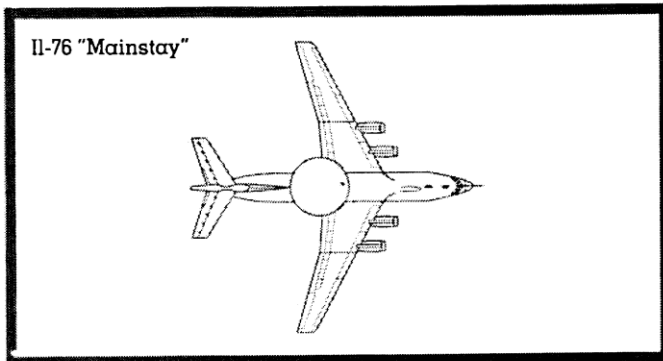
Tupolev, USSR
Four-man bomber
61 tons
Two upgraded Kuznetsov NK-144
turbofans; 88,180 lbs thrust
5,500 kilometers
55,000'
970 kts
Three heavy air-to-surface
missiles or 13 tons of bombs
Fair, with excellent air-
surface avionics





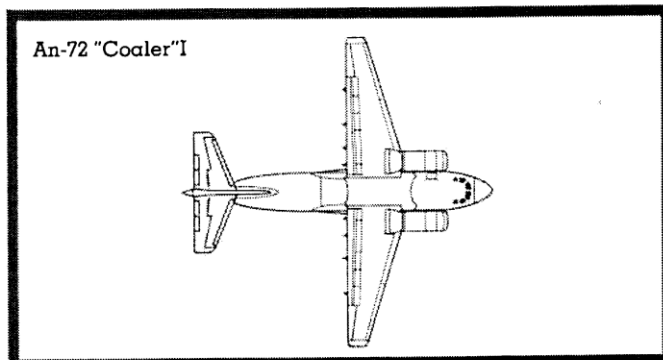
TU-95D "BEAR"

Designer: Tupolev, USSR
Role: 7-12 man reconnaissance bomber
Weight: unknown, about 145-165 tons
Engine(s): four Kuznetsov NK-12MV turbo props
Range: 8,250 kilometers (7 hours endurance)
Ceiling: 41,000'
Max Speed: 475 kts
Armament: Unarmed
Radar Quality: Very good long-range pulse radars



IL-76 "MAINSTAY"

Designer: Ilyushin, USSR
Role: 15-20 man AEW&C
Weight: About 150 tons
Engine(s): four Soloviev D-30KP turbofans; 106,000 lbs thrust
Range: About 6,400 kilometers (7 hours endurance)
Ceiling: About 40-50,000'
Max Speed: 460 kts
Armament: Possibly twin 23mm tail cannon, 2-4 weapon pylons
Radar Quality: Excellent long-range Doppler radars



AN-72 "COALER"

Designer: Antonov, USSR
Role: Three-seat air transport
Weight: 28 tons
Engine(s): Two Lotarev D-36 turbofans; 28,660 lbs thrust
Range: 1000 kilometers (max cargo) to 3,800 kilometers (no cargo)
Ceiling: 36,100'
Max Speed: 410 kts
Armament: Unarmed; can carry 32 passengers or 11 tons cargo
Radar Quality: Navigational only

