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3 7 MAY 1966

MEMORANDUM FOR: Director, National Reconnaissance Office

SUBJECT: F.Y. 1967 thru F.Y. 1972 Program Cost  
Estimates for CORONA, [ ] and  
HEXAGON

REFERENCE: Your Memo, BYE-52260-66, dated 2 May 1966,  
Subject: Supplemental Guidance for  
F.Y. 1967 thru 1972 Program Cost Estimates

In accordance with reference, forwarded herewith are  
two copies of the program cost estimates for CORONA, [ ]  
and HEXAGON, Fiscal Years 1967 thru 1972. Information copies  
of the CORONA and HEXAGON estimates have been sent to SAFSP.

*Huntington D. Sheldon*  
HUNTINGTON D. SHELDON  
Director of Reconnaissance, CIA

Attachments  
as stated

*for 2 May 66*  
*for [ ] see*  
*BYE 0073 for FY 69*  
*FY 68-72*  
*BYE 0077*  
*BYE 0124*  
*23 May*  
*7 days*  
*for radar electronics*

BYE-0115-66/1  
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CORONA

(In Millions)

FY 1967 BUDGET SUMMARY (OPTION I)

I.	Camera -----	\$10.316
II.	Recovery Vehicles -----	8.320
III.	Payload Structures and Integration -----	21.081
IV.	Contingency -----	<u>1.270</u>
	Total CORONA, FY 1967 (Option I) -----	<u><u>\$40.987</u></u>

FY 1967 BUDGET SUMMARY (OPTION II)

I.	Camera -----	\$ 8.716
II.	Recovery Vehicles -----	6.820
III.	Payload Structures and Integration -----	19.265
IV.	Contingency -----	<u>1.270</u>
	Total CORONA, FY 1967 (Option II) -----	<u><u>\$36.071</u></u>

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CORONA - FY 1967

Project CORONA is a satellite photographic search and surveillance system with two (2) recoverable capsules for retrieval of exposed film. The payload portion including the Agena orbiting control vehicle, is launched into orbit by a thrust augmented THOR rocket. The camera system provides 16,000 feet of stereoscopic coverage averaging 10-foot resolution in quality. The system is presently undergoing an improvement program to provide the following:

(1) Higher thrust booster by use of the THORAD to carry additional weight.

(2) An orbit adjust system to provide longer life on orbit and fly lower orbits.

(3) Modification of cameras to provide for a constant rotating lens system to obtain higher cycle rates and less vibration.

(4) Camera modifications will be compatible with the use of ultra thin base film providing more coverage.

(5) Camera modifications for the recovery of geometry within the panoramic frame.

The above improvements should provide a system with a 14-day in lieu of 10-day on-orbit life and an increase in photographic resolution down to 7 feet.

The budget estimates are based on launch schedules which contemplate 38 launches during Fiscal years 67 through 69 under Option I and thirty two (32) launches during Fiscal years 67 through 70 under Option II. As of June 30, 1966, it is estimated that of the fifty (50) J-1 configured systems on contract, thirty-two (32) will have been launched leaving a balance of eighteen (18) units. In addition, there are thirteen (13) J-3 configured units on contract for delivery following the J-1's. This results in a total thirty-one (31) systems on contract for launch starting in FY 1967.

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CORONA - FY 1967

In order to support launches through FY 1969 under Option I an additional quantity of seven (7) J-3 systems must be ordered. This provides for fourteen (14) launches in FY 1967 and twelve (12) launches each in FY 1968 and 1969. In view of reorder lead times of the various subsystems and to maintain four (4) complete systems as back-ups, orders must be placed for the seven (7) additional units in 1967.

In order to support launches through FY 1970 under Option II, one (1) additional J-3 system must be ordered. This will provide for ten (10) launches each in FY 1967, 1968, 1969, and two (2) launches in FY 1970. The additional J-3 system may be ordered in FY 1969.

The budget estimates for both FY 1967 and FY 1968 include funds for the development and procurement of Automatic Precision Altitude Determination System units for launch in FY 1967 and FY 1968.

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CORONA  
(In Millions)

FY 1967  
Operating  
Requirement

Option I

I. Camera

A.	ITEK - Balance of funds required to complete cameras on contract for J-1 through J-50 in the J-1 Configuration -----	\$2.610
B.	ITEK - Funds required in FY 1967 for 13 J-3 constant rotating cameras presently on contract -----	6.106
C.	ITEK - Funds required to implement procurement of 7 additional J-3 camera systems for launch in FY 1969 -----	1.600
	TOTAL Camera, FY 1967 -----	\$10.316

II. Recovery Vehicles

A.	General Electric - Balance of funds required to complete SRV's on contract for J-1 through J-50 in the J-1 Configuration -----	1.663
B.	General Electric - Funds required in FY 1967 to initiate procurement of 26 SRV's for the first 13 J-3 systems -----	5.157

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CORONA

FY 1967  
Operating  
Requirement

(In Millions)

Option I

C. Funds required in FY 1967 to implement procurement of  
14 additional SRV's for 7 additional J-3 system  
launches in FY 1969 -----\$1.500

TOTAL Recovery Vehicles, FY 1967 -----\$8.320

III. Payload Structures and Integration

A. LMSC - Balance of funds required to complete  
structures and system integration of J-1  
through J-50 payload systems in the J-1  
Configuration ----- 5.560

B. LMSC - Funds required in FY 1967 to implement  
procurement of 14 payload structures and inte-  
gration for the J-3 Configuration ----- 7.555

C. LMSC - Funds required in FY 1967 to initiate  
procurement of 7 additional J-3 payloads  
for launch in FY 1969 ----- 1.816

D. LMSC - Funds required in FY 1967 to implement  
development and procurement of 10 APADS units  
for launch in FY 1967-68 ----- 6.150

TOTAL Payload Structures and Integration, FY 1967 ----- \$21.081

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CORONA

(In Millions)

FY 1967  
Operating  
Requirement

Option I

IV. Contingency

A. Estimated contingency funds for engineering changes, studies, analysis, and software changes attributable to the J-1 Configuration -----	\$ .240
B. Estimated contingency funds required for engineering changes, studies, analysis, and software changes attributable to the J-3 Configuration -----	1.030
<b>TOTAL Contingency, FY 1967 -----</b>	<b>\$1.270</b>
<b>TOTAL CORONA, FY 1967 (Option I) -----</b>	<b><u><u>\$40.987</u></u></b>

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CORONA

(In Millions)

FY 1967  
Operating  
Requirement

Option II

I. Camera

- A. ITEK - Balance of funds required to complete cameras on contract for J-1 through J-50 in the J-1 Configuration -----\$2.610
- B. ITEK - Funds required in FY 1967 for 13 J-3 constant rotating cameras presently on contract ---- 6.106
- TOTAL Camera, FY 1967 -----\$8.716

II. Recovery Vehicles

- A. General Electric - Balance of funds required to complete SRV's on contract for J-1 through J-50 in the J-1 Configuration ----- 1.663
- B. General Electric - Funds required in FY 1967 to initiate procurement of 26 SRV's for the first 13 J-3 systems ----- 5.157
- TOTAL Recovery Vehicles, FY 1967 -----\$6.820

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CORONA

(In Millions)

FY 1967  
Operating  
Requirement

Option II

III. Payload Structures and Integration

- A. LMSC - Balance of funds required to complete structures and system integration of J-1 through J-50 payload systems in the J-1 Configuration ----- \$5.560
- B. LMSC - Funds required in FY 1967 to implement procurement of 13 payload structures and integration for the J-3 Configuration ----- 7.555
- C. LMSC - Funds required in FY 1967 to implement development and procurement of 10 APADS units for launch in FY 1967-68 ----- 6.150

TOTAL Payload Structures and Integration, FY 1967 ----- \$19.265

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CORONA

(In Millions)

Option II

FY 1967  
Operating  
Requirement

IV. Contingency

A.	Estimated contingency funds for engineering changes, studies, analysis and software changes attributable to J-1 Configuration -----	\$ .240
B.	Estimated contingency funds required for engineering changes, studies, analysis and software changes attributable to the J-3 Configuration -----	1.030
	TOTAL Contingency, FY 1967 -----	\$ 1.270
	TOTAL CORONA, FY 1967 (Option II) -----	<u><u>\$36.071</u></u>

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HEXAGON

(In Millions)

FY 1967 BUDGET SUMMARY (OPTION I)

I.	Sensor Subsystem -----	\$ 29.7
II.	System Engineering-----	4.0
		-----
	Total HEXAGON FY 1967 (Option I)-----	\$ 33.7
		=====

FY 1967 BUDGET SUMMARY (OPTION II)

I.	Sensor Subsystem-----	\$ 27.5
II.	Systems Engineering-----	4.0
		-----
	Total HEXAGON FY 1967 (Option II)-----	\$ 31.5
		=====

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HEXAGON - FY 1967

Project HEXAGON is a follow-on search and surveillance system to the CORONA Program. The HEXAGON system consists of a Launch Vehicle (TITAN IID) and a Space Vehicle composed of a Sensor Subsystem, a Satellite Basic Assembly, and the necessary Recovery Vehicles.

Budget estimates submitted in this document are for CIA costs associated with the Sensor Subsystem which provides for two panoramic cameras mounted for stereo imagery and includes all elements of the film path; all camera-peculiar electronics, and/or pneumatics necessary for operation of these elements in response to commands; power conversion components peculiar to the sensor subsystem; and a housing which establishes and controls the internal environment for the sensor and provides the structural support for all internal elements of the sensor subsystem.

The estimates hereby submitted are based on operational launch schedules as outlined in BYE-52260-66 of 2 May 1966.

It is to be further noted that the budget estimates herein are "R.O.M." in nature. Firm estimates will not be available until the latter part of July when proposals are received from prospective contractors. It is proposed to resubmit a revised estimate for the total program during August 1966.

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HEXAGON

(In Millions)

OPTION I

FY 1967  
Operating  
Requirement

1.	Sensor Subsystem Costs		
	Non Recurring -----	\$ 27.9	
	Recurring -----	1.8	
	TOTAL Sensor Subsystem, FY 1967-----		\$ 29.7
2.	Systems Engineering-----	4.0	
	TOTAL System Engineering, FY 1967-----		<u>4.0</u>
	TOTAL HEXAGON, FY 1967 (Option I)-----		<u>\$ 33.7</u>

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HEXAGON

(In Millions)

FY 1967  
Operating  
Requirement

OPTION II

1.	Sensor Subsystem Costs		
	Non Recurring -----	\$ 27.3	
	Recurring -----	.2	
	TOTAL Sensor Subsystem Costs, FY 1967-----		\$ 27.5
2.	Systems Engineering-----	4.0	
	TOTAL Systems Engineering, FY 1967-----		<u>4.0</u>
	TOTAL HEXAGON, FY 1967 (Option II)-----		<u>\$ 31.5</u>

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CORONA

(In Millions)

FY 1968 BUDGET SUMMARY (Option I)

I. Camera Systems -----	\$ 2.940
II. Recovery Vehicles -----	1.029
III. Payload Structures and Integration -----	12.069
IV. Contingency -----	.650
<b>TOTAL CORONA, FY 1968 (Option I)-----</b>	<b><u><u>\$16.688</u></u></b>

FY 1968 BUDGET SUMMARY (Option II)

I. Camera Systems -----	\$ 1.448
II. Recovery Vehicles -----	.377
III. Payload Structures and Integration -----	10.412
IV. Contingency -----	.650
<b>TOTAL CORONA, FY 1968 (Option II) -----</b>	<b><u><u>\$12.887</u></u></b>

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CORONA - FY 1968

The CORONA Program will continue in operation during this fiscal year. Operational launches at the rate of one (1) per month under Option I and 10 per year under Option II are planned utilizing both the J-3 Configuration or Improved CORONA System and the J-1 Configuration. (See attached launch schedule.)

Procurement of follow-on systems for FY 1969 launches will also continue for a planned rate of one (1) per month under Option I and ten (10) per year under Option II.

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CORONA

(In Millions)

FY 1968  
Requirement

Option I

I. Camera

A.	ITEK - Balance of funds required to complete the first 13 J-3 cameras presently on contract-----	\$ .940
B.	ITEK - Funds required for continuation of the 7 follow-on J-3 cameras-----	2.000
	TOTAL Camera, FY 1968-----	\$2.940

II. Recovery Vehicles

A.	General Electric - Funds required to complete 26 SRV's for the first 13 J-3 systems-----	.173
B.	General Electric - Funds required for continuation of 14 SRV's for the 7 follow-on systems-----	.856
	TOTAL Recovery Vehicles, FY 1968-----	\$1.029

III. Payload Structures and Integration

A.	LMSC - Funds required to complete last of the J-1 systems-----	1.026
B.	LMSC - Funds required for continuation of the first 13 J-3 systems-----	6.915

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CORONA

(In Millions)

FY 1968  
Requirement

Option I

C. LMSC - Funds required for continuation of 7  
follow-on J-3 systems-----\$2.357

D. LMSC - Funds required in FY 1968 to implement  
procurement of 10 APADS----- 1.771

TOTAL Payload Structures and Integration, FY 1968-----\$12.069

IV. Contingency

Contingency for engineering changes, studies, analysis, and  
software changes for the J-3 system----- .650

TOTAL Contingency, FY 1968----- .650

TOTAL CORONA, FY 1968 (Option I)-----\$16.688

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CORONA

(In Millions)

FY 1968  
Requirement

Option II

I. Camera

A.	ITEK - Balance of funds required to complete first 13 J-3 cameras presently on contract-----	\$ .940
B.	ITEK - Funds required to initiate procurement of one additional follow-on J-3 camera-----	.508
	TOTAL Camera, FY 1968-----	\$1.448

II. Recovery Vehicles

A.	General Electric - Funds required to complete 26 SRV's for the first 13 J-3 systems-----	.173
B.	General Electric - Funds required for continuation of 2 SRV's for 1 follow-on J-3 system--	.204
	TOTAL Recovery Vehicles, FY 1968-----	\$ .377

III. Payload Structures and Integration

A.	LMSC - Funds required to complete last of the J-1 systems-----	1.026
B.	LMSC - Funds required for continuation of the first 13 J-3 systems-----	6.915

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CORONA

(In Millions)

FY 1968  
Operating  
Requirement

Option II

C.	LMSC - Funds required for continuation of 1 follow-on J-3 system-----	\$ .700
D.	LMSC - Funds required in FY 1968 to implement procurement of 10 APADS-----	1.771
	TOTAL Payload Structures and Integration, FY 1968-----	\$10.412
IV.	Contingency	
	Contingency for engineering changes, studies, analysis and software changes for the J-3 system-----	.650
	TOTAL Contingency, FY 1968-----	.650
	TOTAL CORONA, FY 1968 (Option II)-----	<u>\$12.887</u>

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(In Millions)

FY 1968 BUDGET SUMMARY (OPTION I)

I.	Sensor Subsystem-----	\$ 33.0
II.	Systems Engineering-----	<u>5.0</u>
	TOTAL HEXAGON, FY 1968 (Option I)-----	<u>\$ 38.0</u>

FY 1968 BUDGET SUMMARY (OPTION II)

I.	Sensor Subsystem-----	\$ 30.7
II.	Systems Engineering-----	<u>5.0</u>
	TOTAL HEXAGON, FY 1968 (Option II)-----	<u>\$ 35.7</u>

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HEXAGON - FY 1968

The HEXAGON program will be in the research and development phase with fabrication and qualification testing of the first flight vehicles being initiated. Long lead time items will be released to procurement for the production and operational phase. Manpower and funding requirements will be slightly higher than in FY 1967.

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HEXAGON

(In Millions)

OPTION I

FY 1968  
Requirement

1.	Sensor Subsystem Costs		
	Non Recurring -----	\$ 31.0	
	Recurring -----	2.0	
	TOTAL Sensor Subsystem, FY 1968-----		\$ 33.0
2.	Systems Engineering-----	5.0	
	TOTAL Systems Engineering, FY 1968-----		<u>5.0</u>
	TOTAL HEXAGON, FY 1968 (Option I)-----		<u>\$ 38.0</u>

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HEXAGON

(In Millions)

<u>OPTION II</u>	<u>FY 1968 Requirement</u>
1. Sensor Subsystem Costs	
Non Recurring -----	\$ 30.3
Recurring -----	.4
TOTAL Sensor Subsystem, FY 1968-----	\$ 30.7
2. Systems Engineering-----	5.0
TOTAL Systems Engineering, FY 1968-----	<u>5.0</u>
TOTAL HEXAGON, FY 1968 (Option II)-----	<u><u>\$ 35.7</u></u>

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CORONA

(In Millions)

Fiscal Years 1969-1972

The CORONA Program under option one (1) will continue operational launches at the rate of one (1) per month through FY 1969 utilizing the J-3 Configuration.

The CORONA Program under option two (2) will continue operational launches at the rate of ten (10) per year through FY 1969 utilizing three (3) J-1 Configurations and seven (7) J-3 Configurations. Two (2) J-3 Configurations will be launched in FY 1970.

Beginning in FY 1970 the CORONA system search and surveillance mission will be replaced by a new search and surveillance photographic satellite system.

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CORONA (Option I)

(In Millions)

Fiscal Years 1969-1972

<u>Items</u>	<u>FY 1969</u>	<u>FY 1970</u>	<u>FY 1971</u>	<u>FY 1972</u>
I. CORONA Satellite Search and Surveillance System				
A. Itek - funding required for completion of follow- on 7 J-3 cameras	\$ .656	-0-	-0-	-0-
B. General Electric - funding required for completion of 14 follow-on J-3 SRV's	.500	-0-	-0-	-0-
C. LMSC - funding required for completion of first 13 J-3 systems	.600	-0-	-0-	-0-
D. LMSC - funding required for continuation of follow- on 7 J-3 systems	1.000	-0-	-0-	-0-
TOTALS (Option I)	<u>\$2.756</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>

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CORONA (Option II)

(In Millions)

Fiscal Years 1969-1972

<u>Items</u>	<u>FY 1969</u>	<u>FY 1970</u>	<u>FY 1971</u>	<u>FY 1972</u>
I. CORONA Satellite Search and Surveillance System				
A. ITEK - funding required for completion of 1 follow-on J-3 camera	\$ .100	-0-	-0-	-0-
B. LMSC - Funding required for completion of first 13 J-3 systems	.600	-0-	-0-	-0-
C. LMSC - Funding required for continuation of the follow-on J-3 system	.040	-0-	-0-	-0-
TOTALS, (Option II)	<u>\$ .740</u>	<u>-0-</u>	<u>-0-</u>	<u>-0-</u>

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HEXAGON

(In Millions)

Fiscal Years 1969-1972

The HEXAGON Program under Option I will launch four (4) vehicles in FY 1969 and then continue at the rate of six (6) per year through FY 1973. Under Option II, two (2) vehicles will be launched in FY 1969 and then will continue through FY 1973 at the rate of six (6) vehicles per year as under Option I.

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HEXAGON

(In Millions)

Fiscal Years 1969-1972

OPTION I

1.	Sensor Subsystem Costs	<u>1969</u>	<u>1970</u>	<u>1971</u>	<u>1972</u>
	Non Recurring-----	\$ 19.7	-0-	-0-	-0-
	Recurring-----	11.7	25.0	18.2	18.0
2.	Systems Engineering-----	<u>5.0</u>	<u>4.0</u>	<u>4.0</u>	<u>4.0</u>
	TOTAL HEXAGON (Option I)-----	<u>36.4</u>	<u>29.0</u>	<u>22.2</u>	<u>22.0</u>

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HEXAGON

(In Millions)

Fiscal Years 1969-1972

OPTION II

1.	Sensor Subsystem Costs	<u>1969</u>	<u>1970</u>	<u>1971</u>	<u>1972</u>
	Non Recurring-----	\$ 21.0	-0-	-0-	-0-
	Recurring-----	\$ 8.3	25.0	18.2	18.0
2.	Systems Engineering-----	<u>5.0</u>	<u>4.0</u>	<u>4.0</u>	<u>4.0</u>
	TOTAL HEXAGON (Option II) -----	<u>\$ 34.3</u>	<u>29.0</u>	<u>22.2</u>	<u>22.0</u>

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CORONA (Option I)

LAUNCH SCHEDULE

FY	J	A	S	O	N	D	J	F	M	A	M	J
<b>1967 Flight Reserves</b>	J-36 4	J-32 5	J-37 J-34 4	J-38 5	J-35 5	J-39 4	J-40 4	J-41 4	J-92 5	J-43 4	J-44 J-45 2	J-46 2
<b>1968 Flight Reserves</b>	CR-1 3	J-47 4	J-48 4	CR-2 4	J-49 4	CR-3 4	J-50 4	CR-4 4	CR-5 4	CR-6 4	CR-7 4	CR-8 4
<b>1969 Flight Reserves</b>	CR-9 4	CR-10 4	CR-11 4	CR-12 4	CR-13 4	CR-14 4	CR-15 4	CR-16 4	CR-17 3	CR-18 2	CR-19 1	QR-2 0
<b>1970 Flight Reserves</b>												

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CORONA (Option II)

LAUNCH SCHEDULE

FY	J	A	S	O	N	D	J	F	M	A	M	J
1967 Flight Reserves	J-36 5	J-32 5	J-37 5	J-38 6	J-34 6	J-35 6			J-39 8	J-40 7	J-41 6	J-42 6
1968 Flight Reserves	CR-1 7	J-43 8	J-44 8	CR-2 8	J-45 8	CR-3 8			J-46 10	CR-4 10	J-47 10	CR-5 10
1969 Flight Reserves	J-48 10	CR-6 9	J-49 8	CR-7 7	J-50 6	CR-8 5			CR-9 5	CR-10 4	CR-11 3	CR-12 2
1970 Flight Reserves	CR-13 1	QR-2 0										

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