UGE Modules for Command & Conquer 95 by: AGENT 64

First of all I would like to thank Andrew Griffin for making CCedit, without this program it would have been impossible for me to do the modules.

Installation:Unzip into your Universal Game Editor directory.
You can get it here:http://www.avault.com/cheat/cs-uge.asp
You'll need the Universal Game editor in order to use the modules, add them to the game list and choose what module:

cc95air.mdl :: aircraft module
cc95bui.mdl :: buildings module
cc95inf.mdl :: infantry module
cc95veh.mdl :: vehicles module (1 of 2)
cc95veh2.mdl:: vehicles module (2 of 2)

when the program asks to locate the Saved Game File, you have to point it to the c&c95.exe file which is the file containing all the units' data. So make sure to make a back-up. To undo the changes simply overwrite the modified file.

Here are the value meanings for some of the variables:

		value	meaning
•	owner	249 250 251	GDI only NOD only Common (both GDI and NOD)
•	construction	255	None
	type	0 2 4 6 8	None Infantry Vehicles Helicopters Structures

# The following have the same meaning

- buildable
- fires twice
- invulnerable
- invisible 0 Off, noselectable 1 On, yes
- attackable
- cannot land
- transport ability
- stealth

Now here is the weapon list:

#### value|weapon

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255: none

0: sniper's rifle

1: high velocity machine gun

2: pistol

3: 5.56mm chaingun

- 4: rockets
- 5: infantry flamethrower
- 6: tank flamethrower
- 7: chemical spray
- 8: grenade
- 9: 70mm cannon
- 10: 120mm cannon
- 11: 120mm cannon(apr)
- 12: turret cannon
- 13: missile pack
- 14: 227mm rockets
- 15: ballistic charges
- 16: machine gun
- 17: gunboat missile
- 18: rocket launcher
- 19: napalm bomb
- 20: laser
- 21: SAM missile
- 22: Honest John missile
- 23: dinosaur bite 1
- 24: dinosaur bite 2

The following is a description for all the characteristics for the units. I got it from the CCedit package. It explains all the allowable Maximum and Minimum values. One more thing, if you play a multiplayer game the game will hang if you modified it using the modules. I know the UGE is not necessarly a proper way for a units editor, but I'm hoping that one of you progarmmers out there will come up with an editor based on the modules because I don't know how to program at all.

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## CHAPTER [5]: Unit and Building Characterisitcs

There are certain characteristics which will only take effect at the beginning of a level, or when a new unit of that type is produced. The way around this is just to restart the level. From memory, this includes stealth ability, hit points, and ownership (there are probably others).

There are some maximum values that I am not 100% sure about (such as maximum power required), but in these cases I decided to be safe rather than sorry (likewise the maximum of 32K for hit points).

# [5-1]: Speed

Units all have a maximum speed of 127 (this is very fast - the recon bike has speed 40 normally). However, there are a few problems with setting the speed high that you should know about.

Infantry units behave very wierdly when given speed values above about 30. Their movement becomes increasingly jerky, and eventually it will appear that there are 3 units where there should only be one, and at this stage that unit becomes very difficult to move around. It is recommended that you keep infantry speed below 30.

Air units (mainly orca and apache) also behave strangely when given extremely high speed values. Sometimes they will simply refuse to land on a helipad, even thuogh there are no other helicopters trying to land there. This can get extremely frustrating. I don't know of an exact value

at which this begins to occur.

Decreasing the speed of the A-10 means that it drops its bombs in a much smaller area, but also makes it much easier to kill with defensive missiles. Increasing the speed of the A-10 increases the area over which it will drop its bombs.

### [5-2]: Armour Thickness \*\*\*ARMOUR

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There are 5 levels of armour available to be placed on your vehicles or buildings. These increase in strength ranging from 1 (the weakest) to 5 (virtually indestructible). No unit in the game has a natural armour value greater than type 3, so I'm not 100% sure whether types 4 and 5 are completely legal. Nevertheless, they work and don't cause Command and Conquer to crash.

#### [5-3]: Secondary Weapon

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Only one unit (the mammoth tank) comes with a secondary weapon by default, but this allows you to give secondary weapons to all vehicles. However, they operate in a manner which is different to the primary weapons.

For those vehicles which have turrets, the secondary weapon is fired when the turret turns around to fire at a new opponent. For vehicles which do not have turrets, the story is a little different, and more complex.

When vehicles do not have a turret and are given secondary weapons, they will fire their primary weapons when in a direct line (horizontally or vertically) to their opponent. When not in a straight line, they will fire their secondary weapon to attack ther opponent.

When giving a unit a secondary weapons which has a longer range than its primary weapon, that unit will begin to attack enemy units with its secondary weapon whenever an enemy unit comes within range of that weapon.

#### [5-4]: Primary Weapon

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This is the weapon that the unit/building attacks with, and there are only a few things that you should be aware of.

If you give a unit/building (except for the Obelisk) the laser, then whenever that unit/building fires its weapon, there will be no graphic associated with the weapon discharge. The sound effect is still there however. I haven't found out why this is happening.

Putting the napalm bomb on anything other than the A-10 is a pretty pointless excercise, as the bomb falls straight down on the square from which it was launched. While this does not damage the unit firing the bomb, it also doesn't do much (if any) damage to surrounding units. However, giving infantry napalm bombs is definitely interesting when they are in large groups.

### [5-5]: Owner

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The ownership variable is set to determine which side (GDI, NOD, both, or neither) can build that particular unit/building. Remember that some units/buildings do have pre-requisites (check out Westwood's FAQ) before they can be built, so those pre-requisites must also be set (eg. grenadiers require a barracks - they cannot be built with just a hand of nod).

Please note that there is no known way of producing the dinosaurs, viceroids, hovercraft, A-10, gunboat and transport plane so changing the ownership on these items is a pointless exercise.

Also note that in single player mode, that the computer will continue to rebuild its buildings even if they are marked as 'Cannot be built'. This only affects the human player in single player mode.

# [5-6]: Power Required \*\*\*POWER REQ.

This is the amount of power that a building drains from the available power supply. Only the Temple of Nod, Advanced Communication Centre and Obelisk of Light can have a required power value of greater than 127. These three structures can have a maximum power requirement of 32,766.

The minimum power requirement is 0.

# [5-7]: Power Produced \*\*\*POWER CAP.

This is the amount of power that this type of building contributes to the power pool. Only the Advanced Power Plant can produce more than 255 units of power. The Advanced Power Plant can produce 32,766 units of power.

The minimum power produced is 0.

## [5-8]: Cost

Most units/buildings have a maximum cost of 32,766, but there are a few exceptions that you should know about.

The minigunner has a maximum cost of 255. The walls and fences have a maximum cost of 255. The dinosaurs also have a maximum cost of 255, although it is probably better to leave their cost unchanged.

The minimum cost (except for the dinosaurs) is 1.

### [5-9]: Visual Radius \*\*\*SIGHT

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This determines how many black squares of the map are cleared when a unit moves into range, or when a structure is built. Remember, it is a radius, so this amount is cleared on all sides.

There is a maximum value of 10 for the radius.

If you give a unit a large radius (such as 10), what occasionally happens when that unit unloads from a transport helicopter or hovercraft is that some part of the map near the unit that should have been uncovered will remain black. Simply move that unit (or another) to uncover the dark area. It seems as though the black is removed from the edge of the visual radius rather than from all squares covered by that unit's vision.

### [5-10]: Hit Points

There are three classes of hit points: light unit, heavy unit and building.

Light units all have a maximum hit point value of 127. These units are: all forms of infantry, the stealth tank, mobile HQ, SSM, artillery, rocket launcher, and all aircraft.

The heavy units all have a maximum hit point value of 32,766. These units are the remaining vehicles.

Buildings are different again. They have a maximum hit point value of 16,382. If they have a value greater than this, then they fail to build correctly.

Please note that the walls have a maximum hit point value of 255, but editing their hit points does not make them stronger.

If you have increased the maximum hit point value of a unit and load up a savegame in which these units already exist, then these units will appear to be damaged as the hit points they currently have is less than the new maximum. They still have the same amount of hit points as before, but will appear to be injured.

### [5-11]: Weapon Payload

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This changes the amount of ammunition that the aircraft carry. Increasing it means that the aircraft can stay out longer without needing to rearm itself. Changing the payload of the A-10 will increase the length of its bombing path (it does not turn back for another pass over the target until it has dropped all of its bombs). The A-10 will drop a number of bombs (or other weapon) equal to three times this number.

Please note that the rearming rate of the helipad is constant, so completely rearming a helicopter which carried 127 missiles will take a very long time.

The maximum allowable payload is 127.

### [5-12]: Invulnerability \*\*\*INVULNERABLE

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When turned on, this unit/building type cannot be hurt in any way.

However, buildings can still be captured by engineers, but cannot be blown up by commandos.

# [5-13]: Construction Type

This determines what a certain structure type allows you to build. There are a few things that you shuold know about this, however.

In all cases, having multiple structures that have the same construction type (ie multiple barracks) decreases the time needed to build that unit/building.

While setting a building other than the barracks or hand of nod to have the ability to build infantry will decrease the time needed to produce infantry units, they cannot be built FROM structures other than barracks or hand of nods. What i mean by this is that although, say, a power plant can give you the ability to build infantry units, if you just have a power plant and no barracks/hand of nod, then any infantry which you build will not appear. They will not emerge from buildings other than the barrack or hand of nod.

Likewise for the building of vehicles. Vehicles will only emerge/be delivered from weapons factories and Runway Delivery Systems. They will not emerge from other buildings.

Fortunately, any type of building with the ability to build structures will be able to place down newly built structures.

# [5-14]: Double Fire Ability \*\*\*FIRES TWICE

When on, this ability causes the unit/building to fire its weapon twice instead of once. This also affects the seondary weapon, it the unit has one

Note that if the unit/building kills its opponent with the first of its shots (and there was a delay before the second fired), the next time it attacks, it will use the shot that remains from this interrupted firing pair. So, there will be a single shot, the reloading delay, and then it will resume is double firing pattern.

I think that when the obelisk has its double firing ability set, that when it attacks an opponent, it fires both lasers at the same time, rather than having a delay between attacks. At least, that is what I make of it.

## [5-15]: Rotor Blades \*\*\*NOT IN UGE MODULES

I added this purely for fun, it just alters the graphics of the aircraft a little and has no othe impact on the game. You can give a set of rotor blades to any of the aircraft, or take them away from those aircraft (the apache and chinook) that already have a set.

# [5-16]: Transport Ability

This ability allows an aircraft to carry infantry (or, in the case of the transport plane, to deliver the newly created vehicles to the Runway Delivery System).

When set for the orca and apache, the display showing how many infantry units it is carrying replaces the display showing how much ammunition it still has.

An important note when giving the apache the transport ability is that when an infantry unit gets on and gets off, the graphics stuff up in a really big way. Don't worry about this, it doesn't seem to affect the game at all. The graphics will return to normal once the apache takes off again.

It is important to note that if the transport plane does not have the transport ability turned On, then it will be unable to deliver units to the Runway Delivery System. This means that Nod will be unable to build new vehicles. Any money spent on undelivered vehicles is just wasted.

# [5-17]: Draw Graphics \*\*\*INVISIBLE

Added so that you can see the dinosaur units (you need to play a mission that has some dinosaur units in it to see them).

Please note that this is not the same as the stealth ability. These units are treated as though they are completely visible by opposition units, and will be attacked when they come in range. It is mainly a disadvantage for human palyers.

When a unit doesn't have its graphics being drawn, the status bar showing how much health it has left is also not drawn. The only way to tell if you have selected an undrawn unit is through sound.

When a unit dies however, you do see their death graphic.

### [5-18]: Tech Levels

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This only affects multiplayer games, it has no effect on what you can build in single player games. Remember that some units/buildings have pre-requisites, so use your head when changing the tech levels. eg. making orcas and apaches tech level 3 is useless if helipads are still tech level 6.

When it says that the tech level is Not Applicable, it just means that the default value of the tech level is outside the normal 1-7 range.

### [5-19]: Turning Speed \*\*\*T. SPEED

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This determines how fast a unit (vehicle or aircraft) will be able to change direction. The higher this number, the faster it will be able to change directions.

You may experience some control problems if you give a vehicle both a high Speed and high Turning Speed (it will occasionally go running off in another direction, especially if it has a secondary weapon).

#### [5-20]: Tiberium Capacity

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This reflects how much tiberium a buildings can store. Only the refinery and silo can store more than 127 units of tiberium. These two structures can store up to 32K of tiberium.

While it may seem that the refinery/silo is full (all the boxes have turned green), they will continue to store tiberium until their new limit has been reached. It seems that a box represents a set amount of tiberium stored. Just wait until you get the 'Silos needed' message.

### [5-21]: First Build Level \*\*\*BUILD AT LEVEL

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This is a very useful variable. It determines in which level of the game this unit/building can first be built by the human player. It is a level common to both the GDI and NOD mission levels (eg. setting Repair Bays as a level 14 building means that GDI will be able to first build them in the 14 mission, but NOD will never be able to build them [as there are only 13 missions in the NOD sequence]).

Remember that some buildings have pre-requisites (eg. the Advanced Communications Centre needs the Communications Centre to be built first), so you will need to make sure that these pre-requisites are of the same or lower level.

It is doubtful that building the Temple of Nod early will give you access to the nuclear missile, as you still have to collect the three steel crates

before gaining access to this missile.

However, if you build the Advanced Communications Centre early, you do get access to the Ion Cannon.

A problem that you should know about: Nod does not seem able to build helipads (and hence apaches) by setting the first build level lower. They need to capture (or start with) a helipad to be able to build them. This is probably coded into Command and Conquer (they only should need the Hand of Nod to build).

There is a similar problem for the rocket launcher unit.

### [5-22]: Unit Can Be Selected \*\*\*SELECTABLE

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When set to On, this aircraft can be selected. When Off, you are not able to select the unit, and hence are not able to move it around. See section [6-3] for details about how to use this in a useful way.

### [5-23]: Enemies Will Attack Unit \*\*\*ATTACKABLE

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This is the variable that allows the Nod transport plane to fly in new vehicles without being attacked by any missile troops. If you want the current aircraft to get attacked by missile troops (and by ground forces when it lands), set this to Off. If you do not want these troops to attack this aircraft, set it to On.

One thing to note is that while SAM sites will not attack a unit (I used an orca) that is attacking it and has this variable set to On, a bazooka infantry unit will attack any aircraft that attacks it, even if it has this variable set to On. It is likely (but untested by me) that vehicles will attack units that attack them (if possible), regardless of this variable, but structures will not.

# [5-24]: Aircraft Cannot Land \*\*\*CANNOT LAND

If this is set to On, then this aircraft will not be able to land on the ground. It will seem to 'float', and you will not be able to move it, even if you are able to select it.

It Off, then the aircraft will be able to land, just like the normal helicopters.

Please note that if you set this to Off for the Transport Plane in a single player game and the computer is NOD, then it will be able to drop its newly bought vehicles anywhere on the map, not just where its runway it. This lets it bring new vehicles directly to the front line of the battle. See section [6-3] for details on how to use this in a useful way.

Also, if you set this to On for the A10, then it will have problems using its napalm bombs in the correct way. Instead of flying over the target, it will attempt to attack the target like a helcopter, and so will drop its bombs well away from the intended target.

# [5-25]: Can Be Built \*\*\*BUILDABLE

This flag determines whether that particular unit/structure can be built. It does affect what the computer can build, not just the human player. When On, this unit/structure can be built. When Off, it cannot be built.

Using this flag, it becomes possible to build the dinosaurs, viceroid, A10, transport plane, hovercraft and gunboat.

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CHAPTER [6]: Supplementary Notes on Some Units and Buildings

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#### [6-1]: Dinosaur Units

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There are 4 dinosaur units in Command and Conquer (why? ask Westwood, not me). Normally, these units cannot be built, but there it is now possible to be able to produce these units.

Firstly, set the Draw Graphics to On, so you can see these units once you build them.

Now, set the Ownership to GDI, NOD or common.

Lastly, set the Can Be Built variable to On.

Now all you have to do is to set the level at which they will first appear (using the First Build Level variable). When you build the weapons factory or runway, you will be able to build and control them.

However, their graphics are quite jerky, and are not very smooth when being moved around. Their death animations are nice, however. Also, they regenerate when eating infantry (not sure if this happens when eating vehicles).

There is no little icon on the sidebar showing the dinosaur (you just get a blank square), suggesting that Westwood never intended you to be able to build them. You still get a name and price where there picture should be (when you move the mouse over the non-icon).

# [6-2]: Viceroids and Mobile HQ

You'll see a viceroid occasionally in multiplayer games, but, like the dinosaurs, they are not normally able to be built. Just follow the same method as to get the dinosaurs buildable:

Set the Ownership correctly, make them buildable, and then set the level at which they are first available to be built.

Viceroids regerate when on tiberium.

The mobile HQ only appears in multipalyer games where you are playing Capture the Flag with bases off. You should be able to build them by setting the first build level to an acceptable number.

Be warned about the Mobile HQ: it one is destroyed, all of your vehicles and structures are blown up and you lose that mission. It is probably best not to built one :)

# [6-3]: A-10, Hovercraft, Gunboat, and Transport Plane

Being able to build the hovercraft and gunboat is not very useful as you can't really control them. The hovercraft just travels down the screen and disappears off the edge while the gunboat travels across the screen going left to right, and back again. It will attack any enemies it sees,

and ignores the different terrain types, but as you need a weapons factory or runway to build one, it is likely that you will end up with gunboats strolling through your base.

All you have to do is set the Can Be Built variable to On, and set the appropriate build level.

You are also able to build the A10s and transport planes, but the method for building them is a little different (if you want to be able to control them as well).

Firstly, you need to set the Can Be Built variable to On, and set the appropriate build level. Now, to control the A10 or transport plane, you must set the Unit Can Be Selected variable to On, and the Cannot Land cariable to On. You will now be able to build, select and move around these two units.

However, it is important to note that these units will not behave and move in the same way as helicopters. The A10 will no longer be able to use its napaml bombs in the same way (even when called in by an airstrike).

The transport plane has the ability to carry 5 infantry units (like the chinook), but when infantry units load into the transport plane, the graphics of the plane stuff up in a big way (like they do for the apache helicopter).

Interestingly, the A10 and transport plane both have the appropriate icon on the sidebar, so assume that you would have been able to buy these units in an early (unreleased) version of Command and Conquer.

### [6-4]: Walls and Fences

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Unfortunately, almost none of the values available for editing actually does anything. This is a real shame, and leads me to suspect that they are not treated as proper structures by Command and Conquer.

The values that I know will do something are: cost, tech level, and probably ownership. Changing the first build level will also work.

None of the others seem to do anything, but you are welcome to try your hardest.

# [6-5]: Multiplayer-Only Units

There are four units that you can only build in multplayer only games: the transport helicopter, the commando, the chemical warriors, and the SSM (surface to surface missile launcher). However, using First Build Level, you can make it so that you will be able to build these units in the single player game.

Remember that these units do have pre-requisites before they can be built, so they will need to be built first (you may have to alter their first build level as well).

Special Thanks to all the people involved in the CCedit team. Thank you,

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