

BattleDuel

Jochen Terstiege

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COLLABORATORS

	<i>TITLE :</i> BattleDuel		
<i>ACTION</i>	<i>NAME</i>	<i>DATE</i>	<i>SIGNATURE</i>
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REVISION HISTORY

NUMBER	DATE	DESCRIPTION	NAME

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Chapter 1

BattleDuel

1.1 BattleDuel Documentation

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BattleDuel V1.5

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1. Introduction

1.1 Motivation Why? :-)

1.2 Features BattleDuel offers...

1.3 Requirements BattleDuel needs...

2. Windows

2.1 Control Panel How to control BattleDuel

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 - 6.5 Warranty What warranty?
 - 6.6 Copyright Ok, all right

1.2 Motivation

1.1 Motivation

=====

We got the idea for BattleDuel when we played 'Artillery Duel' on the C-64.

After some hours of playing we got nerved by some small bugs and other insufficiencies. Soon we agreed to program an Amiga version.

There are already some games of this type on the Amiga but they mostly lack good graphics and game play. We wanted the game to be very near to the original. Furthermore we (and others) got many ideas about improvements and options that had to be build in :-)

Have fun with BattleDuel...

1.3 Features

1.2 Features

=====

BattleDuel

- can be played with up to 4 players
 - offers computer opponents with selectable difficulty
 - has 5 play modes: normal duel-mode, 2 tournament-modes, conquer mode and a
-

practice mode

- has a network mode: games with nullmodem, modem and TCP/IP are possible
- is programmed completely (hm, **nearly**) system friendly
- is multitasking friendly
- adjusts to AGA automatically (only 1 program)
- has nice graphics and sound-effects
- has a nice gadtools interface
- works with the Amiga-emulator **UAE** (Unix Amiga Emulator)

1.4 Unix Amiga Emulator

UAE is an Amiga-emulator. It was developed by Berndt Schmidt and others to provide the possibility to use Amiga programs with other computers (PC, SGI Indy, Suns, DEC Alpha). For more information have a look at the UAE homepage: <http://www-users.informatik.rwth-aachen.de/~crux/uae.html>

1.5 AGA Copper

The only exception is the copperlist which is used by the AGA-version.

1.6 Requirements

1.3 Requirements

=====

To play BattleDuel you need:

- Kickstart2.04 or better
- at least 1 MByte Chip RAM, if you want sound (sorry)
- an assign BD: to the BattleDuel directory
- at least one background in the landscapes directory

1.7 Control Panel

2.1 Control Panel

=====

With this window you can control the complete program. The Help-key shows you the online help.

If you want to abort a running game, click on the Game-Menu-gadget.

Gadgets for program control:

Quit Quit the program

Recalculate Calculate a new landscape

Game Menu Game Menu Window

Player Menu Player Menu Window

Preferences Preferences Window

Highscore Highscore Window

Network Network Window

About About Window

Gadgets for cannon control:

Barrel Change the angle

Powder Change the amount of powder used

Move Change the cannon position

Information gadgets:

Victories Number of victories

Damage How much damage have you suffered?

You can control the cannons with the keyboard (numeric block) too:

Barrel: keys 7 and 9

Powder: keys 4 and 6

Move: keys 1 and 3

Fire: Enter

1.8 Quit the program

With this gadget you can quit the program.

1.9 Recalculate

With this gadget you can calculate a new landscape. It is activated only if a new duel is started and no player has fired yet. So you have the possibility to change an "unfair" landscape.

1.10 Game Menu

2.2 Game Menu

=====

In this window you can change the settings for the games.

Gadgets

Player1-4 Player

Game Mode Type of game

of Players Number of players

- Game Level** Difficulty of the game
- Game Mode Options** Special settings
- Load Settings** Load other settings
- Save Settings** Save current settings
- Reset** Reset the settings
- Cancel** Don't change the settings
- Start Game** Use settings and start the game

1.11 Player

With these 4 gadgets you can change the players for the games. It is possible to use 2, 3 or 4 players (dependent on the game-mode). To select a player you first have to select him from the list (Available Players) then you click on one of the activated player-gadgets (e.g. Player2). You have to fill in the selected number of players or the game won't start. If there are not enough human players you can fill up the rest with computer players.

1.12 Type of game

You can select between 4 game modes:

1) Duel Mode:

normal mode, 2 players

2) Tournament Mode:

tournament mode, 3 or 4 players (dependent on tournament mode)

3) Practice Mode:

practice mode, 2 players

4) Conquer Mode

conquer mode, 2 players

The goal is to conquer the opponents castle. The distance between the two castles is Conquer Width*2 (represented with blazons). If a player wins a duel, he gets a blazon from his opponents, if he loses, he has to give it back. The player who first reaches the castle of the opponent has won.

For more options see [Game Mode Options](#) !

1.13 Number of players

With this gadget you can select the number of players for the tournament-mode "Each vs Each".

1.14 Difficulty of the game

You can select between 3 difficulty levels: Easy, Medium and Hard.

The only difference for now is the maximum strength and the maximum change of the wind speed. This can change in the future.

1.15 Load other settings

A settings file (with players, game mode, game mode options, ...) is loaded from the settings directory. The file 'Default.set' is loaded everytime BattleDuel is started. If you want to save the current settings as "default" you must use this name!

1.16 Save current settings

A settings file (with players, game mode, game mode options, ...) is saved to the settings directory. You don't have to enter the extension ".set"; it is appended automatically.

1.17 Reset the settings

The settings for players, game mode and number of players is reset to default values.

1.18 Don't change the settings

The new settings are not used and the window is closed.

1.19 Use settings and start the game

The settings are used and the game is started.

1.20 Special settings

2.3 Game Mode Options

=====

In this window you can change the settings for the current game mode (all other settings are not changeable!).

Duel Options

Best of x Duels How many duels?

Unlimited # of Duels Unlimited number of duels?

Who starts Which player starts the next duel?

Practice Options

Wind Wind?

Max Wind Maximum wind speed

Max Change Maximum change of the wind speed

Show Flight Path Show the flight path?

Tournament Options

Mode Tournament mode

Conquer Options

Conquer Width Distance between castles

Misc Options

Dynamic Wind Dynamic wind?

Wind Change Maximum wind change

Cannon Fail Failure of cannon possible?

Probability Probability for cannon failure

No Full Hits No full hits possible?

Use Use current settings

Cancel Don't change the settings

1.21 How many duels?

Here you can enter the maximum number of duels. This value is only an upper bound, you certainly can quit the game earlier. The allowed range is 1..99.

1.22 Unlimited number of duels?

If you don't know how many duels you want to play, simply activate this gadget. You then really can play an unlimited number of duels, but you should quit the game after 10 hours :-)

1.23 Which player starts the next duel?

With this gadget you can select if the loser, the winner or a random player starts the next duel (for the first duel a randomly selected player is used).

1.24 Wind?

With this gadget you can select between wind and no wind.

1.25 Maximum wind

Here you can enter the maximum wind speed. The allowed range is 1..20.

1.26 Maximum change of the wind

Here you can enter the maximum change of the wind strength. The allowed range is 1..10.

1.27 Show the flight path?

The flight path of the cannonball with the current settings is shown (and erased). This option is particularly useful for beginners to learn the game. (If your computer is slow you won't have much fun with this option, because a lot of calculation is necessary!)

1.28 Tournament mode

K.O. System

Only the winner of a duel advances one round (there are 3 duels: 2 half finals and one final). This mode is only possible with 4 players!

Each vs Each

Each player has to play against each other, i.e. with 3 players there are 3 duels and with 4 player there are 6. The player with the most victories is the winner.

1.29 Distance between castles

Here you can change the distance between the two castles. The distance is always doubled, i.e. 3 means 6 fields and 5 means 10 fields.

1.30 Dynamic Wind

Dynamic wind means that the wind changes while the cannonball is flying. This causes the flight path to be less predictable.

1.31 Maximum wind change

With this gadget you can select the maximum change of the dynamic wind. The allowed range is 1 to 30.

1.32 Fail of cannon possible?

With this gadget you can select, whether you want to have cannon failures or not. A cannon failure always happens at random. If your cannon fails, the cannonball has not as much power as normally. It is possible that you hit yourself if the wind is strong enough :-)

1.33 Probability for cannon fail

You can select the probability for a cannon failure. The allowed range is 1..20%.

1.34 No full hits possible?

If you activate this gadget then full hits (i.e. 100%) are no longer possible. The maximum damage per hit now is 75%.

1.35 Use current settings

The settings are used and the window is closed.

1.36 Don't change the settings

The settings are not used and the window is closed.

1.37 Player Menu

2.4 Player Menu

=====

Within this window you can enter new players, remove old ones, change the skill level for computer players and change the player names. Furthermore you can view the actual statistics for every player.

Active Players

In this list all players are shown. It contains the following columns:

Typ : C for computer, H for human players

Location : L for local players, N for network players

Skill Level : E for Easy, M for Medium, H for Hard

- for human players

Name : Name of player

Player statistics

Duels : Number of duels

Victories : Number of victories

Total Shots : Number of shots

Total Hits : Number of hits

Total Hit % : Percentage (Number of hits per 100 shots)

Skill Level : Skill level (only for computer players)

Score : Total of all scores

Average Score : Average of all scores

Hit % Analysis : Figure of the Hit % of the last 50 duels:

the higher the value, the better

the red line shows the mean value (corresponds to Total

Hit %)

Rank : Actual rank

Gadgets

Add Enter new player

Remove Remove player

Edit Change values of player

Reset Values Reset the player statistics

1.38 Enter new player

You can enter the name, the type and the skill level of a player. Every name can appear only once. If you enter a name that already is present you have to enter a different one. In the most cases you will select 'Human' for the type of a player, because the computer players are only the opponents and can not be played by humans. The skill level is only for computer players. The higher it is, the better the computer will play.

1.39 Remove player

You have to select the player you want to remove from the player list. After a security request it is deleted and gone forever.

1.40 Change values of player

You can change the name of a human player afterwards. In addition to this you can change the skill level of computer players. For the values see

Enter new player .

1.41 Reset the player statistics

After a security request all values of the player statistics are reset to 0.

1.42 Preferences

2.5 Preferences

=====

Gadgets

Graphic Prefs Graphic Preferences

Sound Prefs Sound Preferences

Network Prefs Network Preferences

Screen Prefs Screen Preferences

Save Save settings

Use Use settings

1.43 Graphic Preferences

Trees

Shall trees be drawn in the landscape?

Flag Animation

Shall the flag move? If not, only after the wind changes a new picture is drawn (on a slow computer (e.g. A500) it is better to turn off the animation, because it uses too much calculation time and the whole game runs very slow).

Shake Screen

Shall the screen shake when hit (or a miss strikes in the near vicinity of the cannon)?

Balloon

Here can switch the balloon on or off.

Rabbit

Here can switch the rabbit on or off.

Soldiers

Here can switch the soldiers on or off.

Landscape

With this slider gadget you can select the appearance of the landscape.

'Flat' means a really flat landscape, while 'Rough' means a mountainous landscape. (This setting is first used when a new landscape is generated).

Ground Draw

With this slider you can select the speed with which the landscape and the

trees are drawn. (Some people like it, if the landscape is drawn slowly, like it was on the C-64 :-) [If the slider is on the right the landscape is drawn as fast as possible, without a delay]).

Shoot Speed

Here you can change the speed of the cannonball (don't make it too slow, because it then looks very unrealistic).

Background Directory

The directory in which the backgrounds are. Only change this if you know what you do! New or changed backgrounds can be saved into this directory. After a new start of the game they are used too.

Background Load

In which order shall the landscapes be loaded? 'Random Order' means at random while 'In Order' means one after the other.

1.44 Sound Preferences

Game Music

Turn the 'Game Music' on or off.

Highscore Music

The 'Highscore Music' is played only if a new player gets into the highscore list.

Sound FX

The 'Sound FX' are all used while you play a game.

1.45 Network Preferences

Type

If you want to establish a connection, one computer has to be the server and the other one the client! This is very important and should be checked first.

RTS/CTS

With this gadget you can select between hardware- and software-handshake. Normally you should enable this gadget, but if you have problems with a connection you can disable it.

Nullmodem:

Device

You can select the device which should be used. The default is serial.device and works on every Amiga (other successfully tested devices are BaudBandit.device and artser.device).

Unit

Here you can select the unit that should be used.

Baud

You can change the baudrate to the following values:

300,600,1200,2400,4800,7200,9600,19200,38400,57600,115200

Modem:

Device

see Nullmodem

Unit

see Nullmodem

Baud

see Nullmodem

Init

This string is used to initialize the modem. Sometimes it has to be changed.

Dial

This string is used to dial a number. Sometimes is has to be changed.

Hangup

This string is used to hang up. Sometimes is has to be changed.

Phone#1-4

Here you can enter four telephon number from which you can select one in the network window.

TCP/IP:

AmiTCP/AS225

Here you can switch between AmiTCP and AS225.

Host#1-4

Here you can enter four hosts from wich you can select one in the network window. It is possible to use both addresses (like a3000.nowhere.else) and IP numbers!

1.46 Screen Preferences

Screenmode:

Select

Here you can select a new screenmode. If you don't have version 38 or higher of Asl.Library you have to change the value within the icon (see [Tooltypes](#)).

Height

You can change the height of the screen between 400 and 512 pixels.

Borderblank

Here you can select, wether you want a black border around the screen or

not.

PublicScreen:

PublicScreen

If you want to play BattleDuel in a window on a publicscreen (e.g. Workbench) you have to activate this gadget. This only works with Kickstart >= 3.0 and only if the publicscreen has enough free colors (we recommend to use a screenmode with at least 128 colors).

Name

Here you can enter the name of the publicscreen.

1.47 Save settings

The actual settings are saved into the file 'BattleDuel.prefs'.

1.48 Use settings

The actual settings are used but not saved.

1.49 Highscore

2.6 Highscore

=====

In this window you can see the Top Ten of BattleDuel players. Only human players appear in this list. The list is sorted according to the 'Average Score', i.e. the average score for one game (score / number of duels). Only highscores for games with at least 3 duels are inserted!

The score is calculated in the following way:

$\text{damage} * \text{hits} / \text{shots} * 100 * (1.01 - \text{shots} / 100) + \text{bonus}$

The bonus (only for the winner) is dependent on the game level:

1000 for easy, 2500 for medium and 5000 for hard

In addition there is a game bonus, which depends on the settings in the Game Mode Options and Graphic Prefs; the higher the difficulty the higher the score. If an enemy balloon is shot down one gets 1000 bonus points, if a balloon of the own side is downed, 10% of the score are taken off.

The highscore list is saved automatically after every change. The CLR-gadget clears (after a security request) the whole list!

1.50 Netzwerk

2.7 Network

=====

If you want to play BattleDuel over a network you need 2 Amigas that are connected with a nullmodem-cable, modem or TCP/IP. To establish a connection you have to select the 'Network'-Gadget on both computers. In the next window you then can select the type of connection you want.

Nullmodem Connection with a nullmodem

Modem Connection with a modem

TCP/IP Connection with TCP/IP

Now you have to select the 'Connect'-gadget both programs try to establish the connection. If all works well the message 'Connection established' is shown, if not please check the network preferences.

Important: You should check the network preferences before you try to establish a connection (especially the Server/Client-gadget) because otherwise big problems are possible.

If you now want to start a network game you have to select at least one local player and one network player. After this the network game is the same as a normal game.

Differences to a normal game:

- one computer is the server the other one the client
 - only the server can change the settings for duels (players, ...) and can start/cancel the game
 - no players can be added or removed
 - to cut the connection one program has to be quit
 - after a duel the client can only select the gadget ('Next Duel' or 'End Game') which was selected by the server
 - the client can't change the settings for Trees and Landscape in the Graphic Prefs
 - it is possible to define 10 messages (with SHIFT+F1 to SHIFT+F10) and to send them (with F1 to F10)
 - if you press the space key a window opens, within you can enter a message and send it (Return-key)
 - with the 'C' key you can activate the chat mode, where both players can talk to each other
 - received messages start with "R:", sent messages with "S:"
 - the last five messages that were sent and received can be shown with the scroll gadget right beside the status bar (hold down the mousebutton while you are scrolling)
 - the balloon is not present
-

1.51 Connection with a nullmodem

If you want a connection with a nullmodem you need a normal nullmodem-cable. You shouldn't set the baudrate higher than 19200 if you use a slower Amiga (e.g. A500). The default value of 9600 should be sufficient.

1.52 Connection with a modem

The modem of the client is set to the autoanswer mode, that means that the server calls the client. It is therefore important to start the client earlier.

1.53 Connection with TCP/IP

To connect with TPC/IP you have to start AmiTCP or AS225 before you start BattleDuel. You can add the following entry to AmiTCP:db/services resp.

Inet:db/services:

battleduel 3000/tcp

The number 3000 was choosen at will, so it is possible to change this number on both computers. If this entry isn't found, the default value 3000 is used. It is important to start the server before the client!

1.54 About

2.8 About BattleDuel

=====

In this window informations about BattleDuel are shown. If you are a registered user, all information from the keyfile is shown too.

1.55 Barrel

With this slider gadget you can change the angle of the barrel. The allowed range is 0 to 90°.

1.56 Powder

With this slider gadget you can change the amount of powder. The allowed range is 1 to 150 (1 means 'very feeble', 150 means 'very strong').

1.57 Move

With this slider gadget you can change the position of the cannon.

1.58 Victories

In this gadget the number of victories of the actual game are displayed.

1.59 Damage

In this gadget the damage status of the cannon is shown (0 means 'no damage', 100 means 'write-off'). Furthermore you can see the damage on the colored display.

The cannon can be damaged in four ways. These are displayed right to the corresponding gadget. Green means all is working well, yellow means there are light damages and red means there are heavy damages. If the windgauge is hit, the wind for the next shoot is unknown (the display says "??" instead). If the barrel is hit you can only move it in 3 degree steps, the same holds for the powder. If you hit the basis you can move the cannon only in a small range. If a damaged part of the cannon is hit again, the damage goes from light to heavy, which means that the part is unuseable for the next shoot. All damages are repaired automatically.

1.60 Speed

3.1 Speed

=====

BattleDuel is too slow on your computer? The first thing you should try, is to turn off some of the animations (flag, balloon, rabbit, soldiers), because they might use too much calculation time. If this doesn't work you should control the following settings:

Problem: the landscape is drawn too slowly

Help: change the Ground Draw in the Graphic Prefs to 'fast'

Problem: the cannonball flies too slowly

Abhilfe: change the Shoot Speed in the Graphic Prefs to 'fast'

In both cases the dual case holds, i.e. if the cannonball flies too fast you should change the Shoot Speed to 'slow'.

1.61 Memory

3.2 Memory

=====

BattleDuel needs at least 1 MByte memory! If you only have 512 KByte Chip memory you won't hear any sound (sorry for this).

1.62 graphic_boards

3.3 GraphicBoards

=====

Of course you can direct the BattleDuel screen onto a graphicboard. This was successfully tested with the PicassoII and the Piccolo! The only disadvantage is that all graphicboards (until now) don't have a copper emulation, i.e. the generated copperlists of the program are not displayed. Because of this the sky and the damage display consist of only one color and therefore they don't look that good. If you own an ECS Amiga the tooltype (see **Tooltypes**) DISPLAY_TYPE should be set to AGA!

1.63 Tooltypes

3.4 Tooltypes

=====

The following tooltypes are supported by BattleDuel:

· DISPLAY_TYPE

This tooltype is only for users of ECS Amigas with graphicboards. If you own a computer with this configuration you should set this value to AGA.

· DISPLAY_ID

The hexadecimal value of the DisplayID. If you want to change the screenmode you have to select a new one in the Screen Prefs. The new screenmode is used if you restart the game.

Recommended values: 0x19004 for NTSC, 0x29004 for PAL

1.64 known_bugs

3.5 Known Bugs

=====

If you own a computer with the old Denise chip 8361 (the one before ECS) you can see strange effects if you pull down the BattleDuel screen. It seems that the copperlist is not displayed correctly. This is NO bug in BattleDuel because if you display PCHG pictures (where the colors are changed with the help of the copper) you get the same effects. If someone knows how to stop this he should contact us.

1.65 why_register

4.1 Why register?

=====

The following functions are disabled in the unregistered version of BattleDuel:

- you can't play a tournament
- the highscores are not saved

Why are these functions disabled? Well, we worked on BattleDuel for over 1 year and we want to improve BattleDuel in the future. With your registration you help us with this plan. Furthermore you can get all updates for free (see [Updates](#)).

1.66 registration

4.2 Print formular

=====

If you want to register for BattleDuel you have to fill out a form and send it with the registration fee to one of the authors. You then get a disk with the newest version of BattleDuel (with some additional backgrounds) and your keyfile as soon as possible.

If you want to print the form right now, please turn on your printer and click onto the following button: [Print form](#).

1.67 Updates

4.3 Updates

=====

First of all: updates are free! I.e. if you have registered then all new versions of BattleDuel will work with your keyfile.

We will try to spread out updates as fast and as wide as possible (e.g. per Aminet or Fred Fish). If you don't have access to this (e.g. per CD-ROM or ftp) you can send a disk with a sufficient stamped envelope (2,- DM for Germany) to one of the authors. You then get the newest version of BattleDuel for free. (But please don't expect that we finish a new version every day :-).

Updates can be found on the following WWW-servers:

<http://wuarchive.wustl.edu> & mirrors

<http://www.jumbo.com>

<http://www.shareware.com>

1.68 Keyfile

4.4 Keyfile

=====

If you have registered you get a keyfile that activates all disabled functions. The keyfile should be located in the same directory as BattleDuel but you can copy it to the S: or DEVS: directory! The keyfile contains the following informations:

- number of registration
- date of registration
- name and address

It is strictly forbidden to give the keyfile to other people!

1.69 History

5.1 Development

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Version 1.00

Version 1.01

Version 1.02

Version 1.03

Version 1.4.80

Version 1.5.42

1.70 History Version 1.00 (5.4.94)

This is the first official version of BattleDuel!

1.71 History Version 1.01 (21.4.95)

Changes:

- Installation: PowerPacker.library is no longer needed
- Highscore: only highscores for games with at least 3 duels are inserted
- AGA-Copperlist: better support for borderblank, highres-sprites, ...
- Speed of ground draw at maximum setting improved

1.72 History Version 1.02 (1.5.95)

Changes:

- Statistics: if a duel was quit the statistics sometimes were wrong
 - Screen: autoscroll now works (for NTSC)
-

1.73 History Version 1.03 (4.5.95)

Changes:

- Screenmode requester for easier use of graphicboards
- Tooltype DISPLAY_TYPE to allow the use of the AGA version on ECS computers with graphicboards (tested with PicassoII and Piccolo)

1.74 History Version 1.4.80 (27.4.96)

Changes:

- base with windgauge added
- four different damages for the cannon are possible
- network mode: supports nullmodem, modem and TCP/IP
- dynamic wind
- the highscore is saved with date and time

1.75 History Version 1.5.42 (2.8.96)

Changes:

- background animations: balloon, rabbit, soldiers
- variable screen height
- support for publicscreens: BattleDuel in a window
- new game mode: conquer mode
- support for AS225
- improved network protocol
- keyboard control for cannons

1.76 future

5.2 Future

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Possible extensions:

- different types of cannons
- other weapons (cannonballs)
- new backgrounds (e.g. desert)

Suggestions, hints, etc. are welcome...

1.77 authors

6.1 Authors

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1.78 thanks

6.2 Thanks to

=====

· all betatesters for their indefatigable engagement for searching for bugs:

- Matthias Breuckmann

- Joachim Kitzmann

- Ralf Kitzmann

- René Leipholz

· Special thanks to Albert-Jan Brouwer, Peter Struijk and Sami Radwan for testing the network mode

· Dirk Stock, for testing BattleDuel on his A4000 :-)

· Thomas Biskup for a great number of good suggestions and tips

· all registered users of BattleDuel

1.79 used_programs

6.3 Used Programs

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BattleDuel was mainly developed on an A3000 and two A1200.

Futhermore it was tested on the following systems:

- A500 (Kickstart 2.0)
- A1200 (Kickstart 3.0)
- A3000 (Kickstart 2.0 and 3.1),
- A4000 (Kickstart 3.0 and 3.1), tested with PicassoII and Piccolo

The following programs were used:

- SAS/C V6.56
- CygnusEd
- Enforcer and Mungwall
- DPaint IV
- Brilliance 2.0
- VistaPro 3.0
- Scenery Animator
- Protracker

1.80 licence

6.4 Licence

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1. This licence applies to the program BattleDuel, a game published by Jochen Terstiege, Michael David and Marco Seine. BattleDuel is Shareware!
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1.81 warranty

6.5 Warranty

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BattleDuel was tested very intensive. But if you find any bugs you should contact us. We will try to eliminate them as soon as possible.

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6.6 Copyright

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