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October 1984

Vol. 4 No. 5

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WRITE FOR A FREE COLOR CATALOG OF ALL OUR GAMES.
INSIDE THE INDUSTRY

by Dana Lombardy

Here are the results of the survey in the June 1984 issue of CGW (4.3) that asked the readers where they buy their computer games, and how many games (on average) they buy each month.

The first part of the survey asked what were the readers’ favorite types of computer games. We categorized computer games into five types for the purposes of the survey: adventure (role-playing); wargame, arcade, abstract; and sports and other strategy.

PART I

The readers were asked to check the one type of computer game that is their favorite (they play the most often):

A. Adventure 41%
B. Wargame 45%
C. Arcade 4%
D. Abstract 2%
E. Sports/Other 8%

It is not surprising that the majority of readers of CGW play mostly computer wargames and computer adventure games. But it is surprising to see how low the percentages are for the other categories, especially arcade-style games.

PART II

The readers were then asked to check each of the following places from which they regularly bought computer games (at least once a month). The total for all six is greater than 100% because a reader could check more than one category.

Direct from software publisher 14%
Mail order house 55%
Computer hardware/software store 39%
Computer software store 40%
Hobby or game store 16%
Other type of store 14%

Buying from a mail order house, which usually offers computer games at a discount, is the method used by most of the readers to obtain their computer games. Not surprisingly, the second most used method of purchasing computer games is from either a computer hardware/software store or a computer software store.

PART III

The readers were then asked to check the one place where they buy their computer games most often:

Direct from publisher 3%
Mail order house 44%

The dominance of mail order houses as the preferred method of buying computer games was somewhat surprising. However, the fact that the second most favored place to buy games from is a software-only store is not that surprising.

PART IV

The readers then put down the number of computer games they buy every month (average): 1.94

Interestingly, this coincides closely with a similar question on an earlier survey which asked how much the readers spent each month on computer games. The answer was $54.00. If we figure the average game costs $30.00, the amount spent to buy those 1.94 games comes to $58.20.

PART V

The last question asked how many computer games the readers copy from someone else’s disk or tape.

This could have been worded slightly better since we were trying to find out how prevalent “pirating” of computer games is.

The results do not give a true “average”. In fact, the vast majority of readers do not copy games from friend’s disks or tapes. The results show the following:

No games copied (zero) 70%
1 to 6 games copied 25%
7 to 15 games copied 3%
16 to 150 games copies 2%

Whatever copying or “pirating” is being done, only a very small number of the readers of CGW do it—but some of them are engaged in a full-scale effort! Occasionally copying a friend’s game is one thing. Making copies of dozens and even hundreds of games is quite another. We would be interested in hearing from some of the readers who make so many copies of computer games to find out why they do it. Do they believe it’s OK to do it when it costs the software publishers and stores so much in lost sales? You may reply anonymously.

Next issue we’ll have a summary of the results from all the surveys conducted in CGW. This will give us an interesting profile on the readers of CGW: what computer games they play, and where we may be going as a hobby.

SIMULATIONS CANADA

HAVE YOU EVER WONDERED WHAT THOSE OTHER GAMES ARE MISSING?
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FALL GELB is a strategic game of the campaign for France in the spring of 1940. You are placed in control of the armies of the Allies or Germany as the invasion of the West begins. Your computer acts as your Chief of Staff, sending your orders to your armies and corps while displaying intelligence and combat results. Disk Apple II.

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GAMES COMPUTERS PLAY, INC.
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FLOPPY IMMORTALITY: Staying Alive in Wizardry
by Steve Estvanik

Your party falls to the ground in their makeshift camp. Uther has just used his last level 6 MAKANITO spell to destroy the remnants of the force that attacked. Mukdar and Yngvi, each level 10 fighters, still wince in pain from the blows of the spells they absorbed. And Dantas, ever the noble priest, has not enough power left to heal everyone. The elevator that leads up from the 9th level is still a journey away, so the party leaves camp. The battles have been fierce, but several of the warriors have earned enough experience to rise a level. Uther in particular relishes the extra power he'll receive when he rises to the 11th level. Lost in their fatigue, the party fails to see the small group of nightstalkers and ogres behind the next door. Unable to respond, the weakened fighters die under the ogre's blasts. Dantas is caught by a nightstalker and drained a level. The rest of the party barely survives to run in fear to a quiet corner. Only Uther, the bishop Elias and the thief Ulrik manage to survive intact. Together, they drag the bedazed Dantas with them. Uther casts a DUMAPIC spell to find their new position and soon they arrive at the elevator. Shortly thereafter the party emerges from the caverns and heads for the Adventurer's Inn, to rest and to heal. Then, it's back to Gilgamesh's Tavern to mourn their lost comrades.

Not a particularly deadly round of play, but if you haven't got days to spend playing Wizardry and building a stable of 10th level fighters and mages, then every loss hurts. You can recover some of these casualties in the Temple of Cant, but that's not without its problems either. The spells might go awry and turn your character to ash. The cost might bankrupt you. More importantly, the strain on the characters will tell as they age faster than they should. It's a young person's sport, this dungeon delving. So, what's to do? One company sells a program that lets you tinker with your character's files and give them powers and abilities they haven't earned. The approach I've taken, while not the purest, at least preserves the spirit of the quest. Using this method, you will still face setbacks, but they will be of the one step forward, one step back variety. No longer will you have to watch an 11th level character die because of one small miscalculation or greedy move. The hints to this method are in the rule book. It takes only a little work and disk switching to come up with the proper methods. (In a way, it's only fitting that the disk backup utilities provide a way to speed your progress in this game. Used in their normal fashion, they are one of the few pieces of poor programming design exhibited in this well crafted game. Why didn't the designers do that little bit of extra work needed to take advantage of computers blessed with two disk drives. The utilities now use far too many disk swaps and excessive returns to the same procedure.)

The method I've developed for keeping characters requires four disks: the system master (M), the scenario disk you normally use (S), the backup disk you normally make (B1), and a second backup disk (B2). The first backup B1 is made by invoking the utilities and copying S to B1(R). This then lets you bring back your characters if the entire party gets wiped out. It can't be used, however, if you only want to recover one or two characters. So, we need a second type of backup disk. Start this backup by creating a new scenario disk, choosing M from the utilities menu. Then, choose B from the utilities menu and fill the new disk (B2) from the backup disk B1. (This is the other direction of backups available from the same Backup Characters command.)

We now have the disks we need. Use the S disk as you normally would. When an adventure is complete, you now have an extra backup to do. First, perform the normal

Continued on page 40
THE ACTIVISION DECATHLON: Compete in the ten events of the decathlon. Similar in appearance to SUMMER GAMES by Epyx and containing the same events as OLYMPIC DECATHLON by Microsoft. However all events are controlled via rapid movement of the joystick. The other games require a wider range of keyboard skills to play. C-64.

Avalon Hill Game Company
4517 Harford Rd.
Baltimore, MD 21214

COMPUTER DIPLOMACY: The computerized version of the popular board game (see Tele-Gaming in this issue). The game can serve as gamemaster for a group of seven or can play any of the positions in the game. You don’t negotiate with a computer player, it just makes tactical moves for itself. The moves and results can be printed out. The graphics are very nicely done. If you are a Diplomacy player with an IBM, you won’t want to miss this one. IBM (256K). $50.00.

DREADNOUGHTS: WWII naval warfare in the North Atlantic. More detailed than AH’s South Atlantic game, Under Southern Skies. DN contains the Bismarck scenario (the strategic map looks

very similar to the map in their board game BISMARCK) as well as a battle program that allows you to set up encounters between any of 44 different ships. Documentation includes overview of the final days of the Bismarck and a nice listing of the ships used in the game. Apple II. $30.00.


BLACK STALLION WESTERN ADVENTURE: Hi-res adventure set in 1887. You are a scout attempting to reach the safety of a nearby fort. A black stallion plays a pivotal role. The same actions don’t always produce the same results.

Commodore Computers
West Chester, PA

KICKMAN: C-64 version of the Bally/Midway arcade game.

SATAN'S HOLLOW: C-64 version of the Bally/Midway arcade game.
Datamost
20660 Nordhoff St.
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MR. ROBOT: Apple version of the original Atari program. Play any of the 22 screens or design your own. Donkey Kong style game. $34.95.

Daystar Learning Corp.
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Palo Alto, CA 94301

FACTACTICS TRIVIA GAME: Trivia game for one or two (or teams). Categories are TV, Sports, Movies, Rock & Roll, Music Popouiri, Americana. Two thousand questions. Expansion games are planned. Apple, Atari, C-64, IBM. $29.95.

Electronic Arts
2755 Campus Dr.
San Mateo, CA 94403

ARCHON II (ADEPT): While more detailed than the original Archon, gamers will recognize Adept as an expansion of that game system. More playing pieces and magic. The four elements provide the playing fields. Atari, C-64. $40.00.


SKYFOX: You won't believe the graphics! As good as anything on the Atari or C-64. The game uses advanced techniques to bring arcade quality graphics, geometrical precision, and lifelike combat flying adventures to the Apple II family of computers. You get a cockpit-window perspective that is reminds you of Flight Simulator II, but the graphics surpass FSII by a long shot. While an arcade game, strategy comes into play on higher levels of difficulty. $40.00.

Isof
Box 10762
Stanford, CA

EL-IXIR: When we first saw El-ixer we thought "oh, a Go variant on computer, that's nice." But we were not overly thrilled. Now that we have played the game, we say it's great! Imagine Go with random elements. If you understand Go you will understand El-ixir, but what makes El-ixir so different, and a game that could only be done on a computer, is that the computer only gives you a certain selection of squares on which to play your "stone" each turn. After selecting one of the positions randomly offered you by the computer, the computer give you the opportunity to select one of the four cardinal directions. It then will deposit a row of 1 to 4 stones in that direction. This interesting "twist" to a classic game make El-ixir a tense and exciting match of wits. Apple and IBM. $29.95.

Prentice Hall
Englewood Cliffs, NJ

BRAIN TICKLERS: A combination book-disk which presents a collection of puzzles and pastimes for the computer. It is designed for anyone who is interested in problem solving or math puzzles. Apple II. $39.95.

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THE INSTITUTE: A Freudian adventure. You must escape a mysterious institute. You are not mad, but they don't know that. The game is a series of dreams. Apple, Atari, C-64.

SIEG IN AFRIKA: The War in North Africa 1940-1943. You play the role of the Commander of the North African theatre. Players deal with strategic goals, operational planning, supply maintenance, assignment of air and sea power, and operational level orders to land units. Apple II and C-64. $59.95.

THE NEW YORK TIMES COMPUTER CROSSWORD PUZZLES: Thirty puzzles for Apple II, III, and IBMpc.

COMPUTER CROSSWORDS: Thirty puzzles created by Dell.

STAR MAZE: One of the best arcade games around is now available on the C-64 and Atari. You maneuver a spaceship through a series of sixteen complex mazes to recover "power jewels". CGW sponsored a Star Maze contest back in 1982. Although we are not officially sponsoring a contest this time around, C-64 and Atari owners are welcome to "play" the contest themselves. The contest was "to be the first to submit a drawing of the sixteenth level." It is not at all easy to get there. Good luck.

AROUND THE WORLD: An adventure quest in which you assume the role of one of a variety of characters. Your task is to travel around the world in the shortest possible time. The "world" consists of 41 "boundless, scrolling, interconnected regions of the earth starting in London and ending in North America. Atari. $29.95
Ah, October! A good month; after all, if October is here, can November be far behind? Of course, here at the Tale, it's always November (I arranged for that personally). Anyway, the rush is over, and Fred is back from the Grues Convenion. I see he's pouring out your favorite beverage, so settle in by the fire, and we'll talk about Deadline.

So, you've had enough of fanciful adventures in underground caves and strange alien spacecrafts, and now you want "get back to reality" with a nice, quiet, murder mystery. Heh! Being a detective isn't as easy as it seems in the books; after all, YOU are the one who has to do all the work!

There are a few things to remember as you go along playing Sherlock Holmes. Time is important. Events will occur in certain places at certain times, whether or not you happen to be around. If you come late, you may very well miss something important. On the other hand, there are also some very neat red herrings in the game that can lead you to false conclusions, so be alert!

Another thing to keep in mind is that you can't get a conviction unless you have some solid evidence. No matter how sure you may be of the guilty party, without evidence you won't get very far with the investigation if you don't get into the house! The grounds of the estate are also important, but we'll come back to those later. Right now, it's time for some indoor snooping.

You'll have to map out the house, of course, but you'll find it's not all that large a place. However, you should pay careful attention to the room descriptions (if you have a printer, you might want to print them off the first time you go through the rooms), particularly in the library, where the crime was committed.

Speaking of the library, you'll find it has a few interesting items in it. The blank pad and the calendar are especially noteworthy, but there are other things to look at as well. Go over the whole room thoroughly. And don't overlook the balcony outside; careful examination there might give you a few ideas!

Having finished with the library, you need to go poking about in everyone's rooms. Don't be shy; open doors and examine everything you possibly can. There is evidence to be found, if you know what you're looking for (you might want to re-read some of the material that came with the game). While you're doing this, a few things will happen. Somewhere, a phone will ring. You might want to listen in on the conversation. You also might want to intercept the mail that will arrive a little later on. And even the newspaper shouldn't be overlooked; never know what ideas you might get!

Now might be a good time to snoop around the grounds. There's a shed that certainly ought to be looked into, and you never know who you might meet while you're wandering around the estate. In fact, it's a smart move to talk to anyone you see; you could dig up some very important information (provided, that is, you know what to do with it!).

However, don't spend too much time in the great outdoors; you want to be back in the living room for the reading of the will. Everyone will be gathered for this occasion, and you have the opportunity now to pull things up (what's that? What lab report? My my, didn't you get your hands dirty before? Better read this again from the beginning, cause you missed something!).

Now, you are approaching the climax of the investigation. I bet your new findings are really going to come as a surprise to some people! So, don't be selfish, share the wealth. Got some interesting reactions, eh? You should have by now almost all the evidence you need, as well as a pretty good idea of how the murder was committed and who was involved. But, there is still a little more to be done yet; you need just a tad more proof to close the case. So, it might be wise to slip out of the room and see what happens.

This is the critical point of the game. How you handle the events that follow will determine how successful you are in solving the case. A partial success is possible, but having the whole thing neatly wrapped up is better, and you really don't want a second murder, right?

Thus you must be careful now. Keep an eye on your main suspect, and overlook nothing. You'll have to move around a little, but even if you lose sight of the suspect, you should have an idea of that person's destination. Be patient, but don't wait too long to make your arrest. Once everything is in place, make your move.

Whew! The mystery is solved at last. Agatha Christie was never like this! Looks like "getting back to reality" isn't all it's cracked up to be! Maybe a little trip into the realms of fantasy again is what's needed. Where to? Ah, I think I'll leave that as a surprise for next time. Until then, happy adventuring!

Remember that if you need specific help with an adventure game, you can reach me in any of the following ways:

On CompuServe: GO GAM-310
On the Source: SMAIL to ST1030
By mail: Send a self-addressed, stamped envelope, along with your questions to:
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The GameSIG
Adventure Game
Conferences

by Scorpia

As you sit in front of your trusty computer, trudging through twisty little passages all alike, or fighting it out with a band of Orcs, have you ever thought "Gee, I wish I could talk to the person who wrote this game"? Getting in touch with most software authors could be thought of as an adventure in itself. You could pick up the phone, but it's likely you wouldn't get through to the person you want. A letter might be better, but game designers usually have little time to answer fan mail. Yet, for some game players, talking to the people who write games is almost as easy as activating a modem.

CompuServe's Games Special Interest Group (GameSIG) is the place where, among other activities, adventure players from all across the country get together to swap hints, find out the latest information on new games, and just chat about their favorite adventures. It's also the place where members have an opportunity that comes only rarely to most game players: the chance to talk to some of the biggest game designers in the business.

LORD BRITISH

The evening of June 14th, 1984, there was an air of excited anticipation on the SIG. That night, the guest speaker was Lord British, author the marvelous "Ultima" series. As you might suspect, the conference area was jammed with eager people, hoping for the chance to talk to him. They were not disappointed.

In the beginning, Lord British had the floor to himself. To a hushed audience, he gave some details about his current project, Ultima IV. This one, he said, was going to be bigger than any Ultima before it. Most likely, it would cover at least both sides of two diskettes, and would be far more complex than any game he had ever written.

Graphics would be greatly improved, and the animation far superior to that of Ultima III. The maps would have much more detail in them, and monsters in combat would be able to move individually now, where before they all moved in synch with each other. But this Ultima would not be one of mere hack and slash; the very concept of the game had changed. In previous Ultimas, there had been an evil character to defeat. Now, however, the goal would be different: personal development of the player-character. To quote Lord British: "The object will be to develop one of your characters into an Avatar. This will take your players on a journey of eight parts, where each part is as complicated as any previous Ultima". Wow! Eight games in one!

Having dropped this little bombshell, Lord British went on to tell how transacting with people and merchants in towns would be much improved. Where before, most of the "stock characters" said little beyond a mere grunt, now they could carry on a full, if brief, conversation. And it was here that Lord British dropped his second bombshell.

There would be a lot of towns, and each of them would need a lot of these "non-player characters". It would be a great help, said Lord British, if the SIG members could give him a hand with this chore. To that end, he had written up a little sheet (with instructions) for everyone to fill out and send to him. By completing this sheet, a person would actually create a "non-player character" for Ultima IV! Naturally, this was a sensation! How often does one get to take part in the creation of a major computer game? While the members buzzed over this little item, Lord British took a break (his fingers were starting to come loose), and a list of questioners was made (it was a looong list!).

Throughout the rest of the evening, Lord British fielded quite a few queries from inquisitive members. Most of the questions, as you might expect, were about Ultima IV. The SIG members were hungry for details, and they wanted to know it all!

Lord B., however, kept a few things up his sleeve. "I had best not tell directly of the plot", he remarked, "for fear of telling too much!". He also mentioned that parts of the game changed day by day as he worked on it. New ideas, new wrinkles, all sorts of neat stuff occurred to him as he worked Ultima IV. So, even if he told them anything now, it might not be that way by the time the game was finished.

Still, there were things he could talk about. Ultima IV would be available by Christmas, for a variety of machines. The Apple version would come first, to be soon followed by Atari, C-64, IBM and MacIntosh. Music lovers would be in for a treat: many new musical scores were being planned for the game, and a new synthesizer had been purchased to create the background music.

Not all questions were about Ultima IV, of course. For example, one member wanted to know if Ultima (any Ultima) would ever have transferable characters, as Wizardry did. It's hard to "say good-bye" to characters developed over the course of the game; players tend to become rather fond of them.

While such transfers are not in the foreseeable future, there is still hope: "When I have perfected a role-playing system, and
The conference with Lord British was a rousing success. And there was more to come! One month later, on July 18th, GameSIG members had the opportunity to meet one of Infocom's top game designers, Michael Berlyn, author of Suspended and Infidel.

Once again, the conference area was packed. All across the country, people were glued to their terminals as Mike nonchalantly took the floor and began describing how games were written at Infocom.

"We start with an idea", said Mike. "Lacking that, we go to Zayres, K-MART or Macy's to shop for one...". With an idea in mind, the background of the game is then worked out. Once that's been done, the details of the game are filled in.

As an example, Mike cited Zork I. "The whole thing started with the white house. There was no kitchen table, no bag smelling of hot peppers, and DEFINITELY no garlic! Those things were added after the environment. Once the environment was written, and some objects added, the game was well on its way".

Nor are all games written from beginning to end; sometimes, an adventure starts at the last set of rooms. As an example, Mike cited Zork I. "The whole thing started with the white house. There was no kitchen table, no bag smelling of hot peppers, and DEFINITELY no garlic! Those things were added after the environment. Once the environment was written, and some objects added, the game was well on its way".

Micheal Berlyn

Regardless of these little slips, the conference in June, Michael Berlyn in July. Could there, perhaps, be something coming in August? The answer to that was a resounding "Yes!", when the series of special summer conferences closed out on August 22nd with none other than Scott Adams, of Adventure International (yes Virginia, there really IS a Scott Adams!).

SCOTT ADAMS

Another crowd was waiting to hear the man who got micro adventure gaming started. "I'm credited", Scott told them, "with writing the first microcomputer adventure. This is true. Also, my company, Adventure International, is now the oldest software house I know of that has continued to publish the retail market".

Scott then talked about his latest venture, the Questprobe series. "Last year, AI and Marvel Comics signed a 10-year license. We will be publishing adventure games built around all of Marvel's characters, including Spiderman, Hulk, Fantastic Four, etc." He went on to say that the first six have been partially sub-licensed to Commodore for distribution, and the first title in the series, "Hulk", should be out sometime in September, with Spiderman to follow in November.

All the games in this line will have full-screen graphics. And, starting with the second Questprobe, they will have something else: a full-screen parser, which he called SAGAPIUS. While Scott said that his parser

Continued on page 39
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Computer Gaming World announces its SECOND ANNUAL COSMIC BALANCE SHIP DESIGN CONTEST. Design an unbeatable ship using Strategic Simulation's Cosmic Balance and win a trophy. Entries must be postmarked by Dec. 7, 1984; in accord with the following tournament rules:

1. One entry per person. CGW reserves the right to publish all entries in the magazine and/or in disk form. Your entry disk should be labeled with your name, address, telephone number, the machine on which it runs, the tech level of your entry, and the name of each ship in your entry. The same information should appear on the disk jacket. Include return postage if you want your disk back.

2. A panel of three or more judges will play each entry. Each judge will use a ship or ships consistent with the tournament guidelines. Your entry will be played by the computer at level two in solitaire play.

3. Each entry must be worth no more than 250 victory points. Each game will be played on Scenario Five: Dogfight. There can be no more than four ships per entry. Each ship must have a range of one, and no ship can have a maximum speed greater than 32. No dreadnought can have more than 12 drives.

4. Each entry will play against each judge once. The difference between the entry’s and the judge’s victory points will be recorded at the end of the game. Each entry’s score differentials against all judges will be averaged. The entry with the highest average score differential will be declared the winner of the tournament. After ten turns, if any entry warps out or retreats to a range of more than 100 from the judge’s ships, and if the judge’s ships do not pursue, then the entry will not receive full credit for any victory points recorded unless the entry suffered at least 25% damage. If the entry suffered less than 25% damage it will receive half credit for any victory points recorded. If the entry suffered zero damage then it will receive zero credit for any victory points recorded. The purpose of this rule is to discourage ship designs which immediately retreat from the judge’s ship or ships, because each game with such a design might last too long or might end in a stalemate if the judge decides not to pursue.

5. Send entries to COMPUTER GAMING WORLD, P.O. Box 4566, Anaheim, CA 92803-4566. Mark your package “CGW SHIP DESIGN CONTEST”.

6. Winner will be announced in the February 1985 issue.

It’s a sad day in the offices of COMPUTER GAMING WORLD, the mighty SIPEOPATHS (pronounced Sigh-Poe-Paths) have compiled the best record in the COMPUTER GAMING WORLD BASEBALL LEAGUE and did not even make it to the American League playoffs! While compiling an overall record of 35-25, the Sipeopaths, owned and managed by CGW editor Russell Sipe, ended up a game out of first at the end of the first half of the season, and tied for first in the second half only to lose a one game playoff. Team Owner-Sipe is now banking all his hopes on his team in the CGWBL National League, the Tehachapi Steamers.

Every Thursday night this past baseball season was CGWBL night as six owner/managers piloted their teams in a 60 game season. The games were played using SSI’s Computer Baseball (CB). The American League Division was make up of
teams that were created via a pre-season draft conducted last April. The players of the AL East and the two local teams (Angels and Dodgers) were eligible in the draft. The National League Division teams were assembled via a Hi-Lo combination where the best team in the NL by W/L percentage was paired with the worst team in the NL; the second best with the second worst, etc. Each team owner selected one of the six resulting combinations. From the 50 man rosters created by the pairings, the owners traded players for a set period of time. Finally rosters were cut down to 25 players and the resulting teams became the six NL teams. While the AL was a face-to-face league, the NL was played with Computer Casey coaching both sides.

The designer of CB, Charlie Merrow, and the translator of the C-64 version of the game, Roy Wagner, followed the league closely and are making changes to future editions of the game based on the stats the league compiled and the observations of the league owners. Sometime before the beginning of next baseball season SSI plans to release a new improved CB that not only will be more accurate, but will also include such features as the ability to print out team and individual leaders in a variety of batting and pitching categories; the ability to set up a series of games to be played by the computer; and the ability to change players in the season statistical summaries (something not possible with the current utility Season Stat Compiler available on the Team Data Disk).

However, the most significant changes will be in the quality of coaching by Computer Casey. The overwhelming consensus is that Casey is a poor coach. When asked about this problem, Charlie agreed saying that in the orginal version of CB (i.e. the one on the market now) there was precious little program space left for programming the artificial intelligence of Casey. The new version uses a number of machine language routines that frees up programming space which will now go to developing a better AI for Casey. One feature we suggest, and hope to see, is the ability to give Casey general coaching instructions before the game begins. For example you can tell Casey to use the Hit & Run a lot, use it moderately, or sparingly. In like manner other coaching strategies can be designated.

CWWBL is not the only CB league around. There are several, but perhaps none is more ambitious than that run by Mike White of Wilmington Delaware. Mike already has over 20 owners lined up for next season. In Mike’s league players can pick any team of the past, although most of the teams selected are from the 70’s and 80’s. If you are interested in Mike’s league contact him at 3634 Silverwood Rd. Wilmington, DE 19810.

Provided we get a “souped-up” Computer Casey in the new version of CB, we are considering the possibility of running a Casey Coached Hi-Lo League through CGW. After team selection and a period of trading, teams would be finalized. Games would be run at CGW with weekly reports. Owners would set lineups, pitching rotations, and Play style (assuming the new CB allows it). There would be a league fee in the $75 to $100 range. Trophies to the winners. If this is of interest to you, please drop us a line. The number of responses will, in part, help determine whether or not we run the league.

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In the June '84 issue of CGW was a review of Seven Cities that described the play of the game very well. However, that article succeeded in prompting a number of “why did you...?” questions that I thought I would answer in this column. In some ways the design of Seven Cities was more straight-forward than any game we have done recently. Not since "Cartels & Cutthroats" did we have a game idea that required research before we started working the game’s play experience. In fact, Seven Cities generally followed the stages I described in my Real World Gaming column (CGW July '82 through March '83 2.4 to 3.4) the process of simulation game design in great detail. Rather than simply duplicate the approach covered in those issues, I would like to describe Seven Cities in terms of the development of the main ideas instead of the design phases.

To begin the preparation for Seven Cities by brother Bill and I read almost a dozen books and researched many more. Besides the chronicles of the New World explorers, we investigated many diverse fields that made up the background for the conquistadors. Information about such things as ship design, navigation, native American cultures and even geology was collected to “fill out” our picture of the Age of Exploration. For us this part of game design is the most fun. Bill and I are both avid readers and love learning new things. Research, therefore, is just a great excuse for spending weeks at a time reading interesting stuff. (I know most people wouldn’t think reading history was a lot of fun but our mom toilet trained us early!)

The most striking aspect of the New World the explorers found was its size. An area many times the size of Europe was suddenly available for exploitation. Over 16 million square miles of land was sparsely settled by Europe was suddenly available for exploitation. Over 16 million square miles of land was sparsely settled by primitive natives. Our design had to determine that six different levels of native cultures were also needed (from small tribes of poor hunter/gathers to the cities of the Incas.)

Thus, once we decided to represent the area of the New World in a fair amount of detail, we knew we had found the crucial design constraints: 1) store enough data to represent the world, 2) get the data back as needed without disrupting the flow of the game. We had to discover how to compress the data to fit on the smallest disk (Atari with 90K) and how to read the data without irritating pauses for loading. Through a combination of techniques we were able to store 102,400 map points with 25 types of terrain at each point. To allow continuous play while merging new map data from the disk, we modified the disk handlers on the Atari and C-64 to do simultaneous processing. (The Apple was fast enough to need this feature). Thus, our first decision painted us into a corner. Our only way out was to use technologies we didn’t have until we were forced to invent them. (I have talked to a number of other game designers and this is a common method for pushing the state of the art). You decide you are going to do something special then figure out how!

To give a sense of what the explorers faced when they headed west into the unknown, we wanted to create worlds that had never been seen before. Jim Rushing wrote a random world generator that created continental masses that varied from island chains to large double continents with a connecting isthmus. The generator created mountains, river valleys and other terrain features according to geologic rules and then populated the land using a cultural dissemination model. Thus, with our “World Maker” you can’t recognize major land features and head straight for the Aztecs in Mexico or the Incas!
The specification of the world was our first design decision but equally important was the element of native interaction. Historically, in their encounters with natives, the Spanish would use numerous tricks to amaze and intimidate the "savages". If food and gold was not provided willingly, the conquistadors would usually resort to violence. The combination of armor, steel weapons, horses, cannons and intricate tactics were enough to demoralize native defenders armed with wood and stone. Cortez with a couple of hundred men was able to run armies of several thousand from the battlefield. The conquest of both the Aztecs and the Incas was preceded by kidnapping the king and later killing him. But all encounters with the natives weren't violent. Occasionally, missionaries accompanying the expedition would convince the conquistador to use more humane methods. Gold was not nearly as valuable to native Americans as steel knives, woven cloth and even trinkets in some cases. Trading was always a possibility and with fair treatment the natives would often "convert" to Christianity and European ways. However, even the best intentions were often useless in the face of the language barrier. Many encounters between natives and Spaniards became violent because of misconues. Beyond language difficulties there were also cultural and moral differences. When Montezuma proudly showed Cortez the altars used in human sacrifice, Cortez was unable to show the Incas was preceded by kidnap- ping the king and later killing him. But all encounters with the natives weren't violent. Occasionally, missionaries accompanying the expedition would convince the conquistador to use more humane methods. Gold was not nearly as valuable to native Americans as steel knives, woven cloth and even trinkets in some cases. Trading was always a possibility and with fair treatment the natives would often "convert" to Christianity and European ways. However, even the best intentions were often useless in the face of the language barrier. Many encounters between natives and Spaniards became violent because of misconues. Beyond language difficulties there were also cultural and moral differences. When Montezuma proudly showed Cortez the altars used in human sacrifice, Cortez was unable to contain his revulsion. On the other hand the natives (who bathed frequently) could not stand the smell of the Europeans. We searched for a reasonably simple game mechanic that would provide at least the major historical options listed above. We stumbled on to it after seeing an arcade game a friend was working on. To simulate "body language" we used the pace of movement. The three paces used when moving on the map would relate to postures when dealing with natives. "Cautious" would mean peaceful, "moderate" would imply a neutral stance and "reckless" would be overtly hostile. We decided to use a single conquistador character to represent the whole expedition with up to nine natives moving around him. Any time the conquistador is standing still the player can call for his options by pressing the joystick button. In this way we could provide the choices we wanted to have, namely: "offer a gift", "amaze the natives" and ask to "trade". Each of these options would have different effects depending on the posture (pace) chosen, the location in the village and the type of natives you are confronting. For instance, "amaze the natives" will pacify a hostile tribe if you are not threatening them with your sword; but if you are, then mass destruction will result. Combinations of actions are also significant. If you approach the village chief peacefully and "amaze the natives" followed by "offer a gift" several times, the chief will be very grateful. In general we felt that the arcade aspect of the native interactions was the perfect way to add excitement to the game while still providing the variety of options and the subtlety we wanted.

The next point of the design dealt with providing enough commodities to give reasonable approximations of the "trade-offs" involved in forming and maintaining expeditions. At the same time, however, we wanted to keep the game very simple and playable. We settled on men, food, trade goods, gold and ships as the only "things" the player needed to worry with. Nonetheless, attempting to keep track of these five items provided enough pressure on the player. You can get a taste of the fear the explorers felt as their food was exhausted and the expedition died off. Or you can experience the frustration of returning from a profitable land excursion to find that your ships have fled because you were gone too long and didn't leave any men and food aboard.

The final design step was to turn Alan Watson, our artist/programmer, loose to come up with all the beautiful graphics he could squeeze into a nearly full program. His European landscape and the "postage stamp" pictures on the transfer menus were true masterpieces considering what memory he had to work with.

Again let me say thanks to those of you who have bought Seven Cities and promoted it so well. We are currently designing our next product and hope it will be as well received. Please contact me through CGW or Electronic Arts if you have any comments about game design or this column. I can always use more help!

Dan Bunten is the author of COMPUTER QUARTERBACK, CARTELS & CUTTHROATS, and CYTRON MASTERS all available from Strategic Simulations. He is the lead designer of the Ozark Softscape group that wrote M.U.L.E. and SEVEN CITIES OF GOLD both available from Electronic Arts.
The Computer As Opponent

by Charlie Merrow

Ed.—Charlie’s COMPUTER BASEBALL (see elsewhere in this issue) and FIGHTER COMMAND from SSI are two favorites around the offices of CGW. We are pleased to share with you some of his insights on the computer as player.

When you are looking around for a gaming opponent and there is nobody around, your friendly computer is ready, willing, and increasingly more able to take you on. Computers as opponents in strategy games have made great strides in the past several years. How good are they today? Well, let’s take a look at what constitutes a good computer gaming opponent, and in so doing, see just how far up the evolutionary ladder silicon mentality has come.

Competence

The ability to play a reasonable, competent game is paramount for any solitaire opponent. What you really want is a style of play which makes you forget you’re playing a computer. You would like to feel that you can “outsmart” this mindless robot, but not too easily!

Computers play most strategy games with a pretty fair tactical ability but only a marginal strategic competence. Chess programs can find “pretty” two-to-three move mates or middle game combinations, but can’t seem to decide whether they should be conducting a strategic attack on a backward pawn or defending against an opponent’s queenside onslaught. In games like Gomoku or Reversi (Othello), where tactics dominate, computers have become almost unbeatable components.

Computers as wargame opponents usually can get just the right forces on just the right hexes for each individual battle, but have a hard time choosing which battles to fight. Hardly any programs look at what their opponent has done the past few moves to try and anticipate what he might do on his next move — something human players do almost subconsciously. Most programs play much better defensively than they do offensively, since more decision-making and initiative-taking normally are required on offense. Two games which do a fairly good job of both making strategic decisions and playing offense are FIGHTER COMMAND and GEOPOLITIQUE 1990 by Strategic Simulations Inc. (SSI).

Unpredictability

No one wants to play against an opponent who makes the same plays in the same situation every time. So random number generators are used to make computer opponents less predictable. But purely random plays are not appropriate to most situations, so various weighting schemes are often employed to make certain “better” decisions are more likely than others. Most recent war games are good at making unpredictable plays when it is to their advantage to do so. Some of the earlier games, however, had such fundamental flaws as failing to randomize the starting value for the random number generator. One otherwise good game which suffers from a limited unpredictability problem is Avalon Hill’s MIDWAY CAMPAIGN (the northernmost group of Japanese ships are ALWAYS the carriers!).

Adjustable Skill Levels

No one wants to be crushed and demoralized by a computer opponent while first learning a game. Neither do you want a pushover for an opponent once you have gotten to be good. Thus, variable skill levels for solitaire opponents are almost a necessity for games of any significant degree of complexity.

Most recent computer wargames have several solitaire skill levels to choose from in the start-up menu. If no selectable skill levels are available, then a fairly simple way to provide variable skill levels in some games is to give the computer more or better players. Handicapping is another method which may work in some games, such as Go or Chess.

Honesty

It’s important that the methods used to obtain increased skill by the computer are reasonable and fair. There are few things more frustrating than a dishonest computer! Some of the more common above board techniques employed to improve skill levels are: use of more options in making moves, consideration of more factors in decision-making, and more accurate intelligence (military variety) for the computer relative to the human player. All of these methods, along with better (more experienced) units, were used in varying the solitaire levels in Fighter Command.

Ability to Learn or Adapt

The one area where there is tremendous room for improvement in computer game-playing ability is in the ability to learn a game by playing it, or to adapt to the opponent’s style of play. Artificial intelligence is a field which is making great strides toward the creation of computer programs which have these characteristics. But, the memory and processing speed requirements are generally quite large for games of any real complexity, thus making them unsuitable for most microcomputer wargames. One recent exception to this rule is the board game FORTRESS from SSI. This game, which bears a similarity to Go and Reversi, also shares their characteristics of being very simple in concept but very difficult to master. However, the computer can learn the game by playing against you or

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As many of you know, Diplomacy is a board game published by Avalon Hill Game Company. In “Dippy” games, seven players play, scheme, and compete against each other for control of pre-World War I Europe. Plans are made, alliances and deals are negotiated, and orders are submitted to a “GameMaster” (GM) who adjudicates moves. If this sounds straightforward and simple, any Dippy fan will swiftly assure you that it is not.

Diplomacy is a game of wits and criticisms. In THE PLAYBOY WINNER’S GUIDE TO BOARD GAMES, Jon Freeman elaborates: “It is definitely a gamer’s game. The aficionado finds in its freedom of action, lack of luck, and multiplicity of minds working at cross-purposes the ultimate challenge.”

Although most Dippy games are played face-to-face (FTF), and many others by surface mail (PB), Diplomacy has now been played online. Subscribers to telecommunication services such as CompuServe, The Source, and GameMaster have been participating in a number of play-by-electronic-mail (PBEM) games. Several bulletin board systems also offer PBEM to their callers (see the list of telephone and modem numbers at the end of this column).

To discover the history and modus operandi of this exciting new form of Diplomacy, I recently interviewed two online pioneers: Russell Sipe and Doug Beyerlein. Russ lives in Anaheim, California, and is the editor and publisher of CGW. Using his Apple computer and a Diplomacy adjudication program to adjudicate his players’ moves, Russ also hosts online conferences on CompuServe with nationally-known Dippy figures. Doug lives in Menlo Park, California, and is a hydrologist for an engineering consulting firm. His computer is the Osborne. Here are some excerpts from the interview:

CGW: How long have you been involved in the Diplomacy hobby?

RS: That’s a good question. I guess I just saw that electronic mail was ideally suited as a vehicle to play Diplomacy, so I just posted some messages and finally got enough players together to start my first game.

DB: Russell Sipe. It is all his fault.

CGW: Which services have you used to run games?

RS: I began on The Source then expanded to CompuServe. CompuServe turned out to be a much better system for what I was doing, therefore I began to put more emphasis there. We have a Dippy PBEM base on CompuServe’s GameSIG, so GameSIG became the national rallying point of PBEM Diplomacy.

DB: Russ recommended CompuServe as the best online service, so that’s where I started.

CGW: Have you tried playing Dippy via any BBSs?

RS: No, I have not, although I have heard about them. There is a natural fear I have about the BBS games, and that is that they tend to be regional and this is one of the things that could make the games irregular according to the Diplomacy game rating people. So I have not gone out of my way to develop PBEM there, although I certainly am not opposed to those games.

CGW: Do you now prefer PBEM to FTF?

RS: Well, that is sort of like saying do I prefer blue over red. I like both. Each offers something the other doesn’t. Each has value. Some will choose one or the other. In addition to publishing THE ARMCHAIR DIPLOMAT (TAD), an online magazine for PBEM Dippy, I also am the tournament director for several Diplomacy tournaments held in Southern California each year (FTF, of course).

DB: When I have the time I enjoy FTF most. The key, though, regardless of the medium is getting seven top players together. That is the type of Diplomacy game I enjoy most.

CGW: How many PBEM games have you run so far?

RS: We have just started our 8th game on CompuServe; we have had two on The Source. So TAD has, or is, covering 10 games. I was/am GM in 7 of those games.

DB: I am currently GM’ing two games on CompuServe with 13 active players. I also run a postal newsletter (zine) titled EFGIART and I GM two games there.

CGW: Are we talking about 7 players for each of the 10 online games?

RS: Yes, 7 players per game, and since it is common over the course of time for one or more players to withdraw from a game, the replacement players that are brought in bring the average number of people who participate in each game up to 9 or 10.

CGW: Where do your players live?

DB: Everywhere. The players in the CompuServe games are scattered throughout the U.S. The players in EFGIART include one in West Germany and another in Japan. Diplomacy is a worldwide hobby.

CGW: Have you had a problem with “disappearances” in PBEM?

RS: It has occurred, but I would not call it a nagging problem. Actually, our players tend to be more dependable than FTF players. A PBEM Dippy game will last 2-4 years (that’s a long time to maintain interest in a single game), PBEM games, since they are done by electronic mail, can be played with much shorter deadlines between moves. The average PBEM game lasts 6-9 months.

CGW: Have you experienced any “nagging problems” in PBEM? RS: Not in playing the game. The nagging problem from the very first has been that some reactionaries

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called Zerks have escaped from their machine. They run around the premises of the Spare Change Arcade swiping tokens out of token machines and popping them into their piggy bank so they can retire. As the arcade owner you want to keep the Zerks in your arcade.

To do that, you fill up a bin with at least 10 tokens before the Zerks get five tokens in their piggy bank. This gains you entry to a Zerk Show. Entering the Zerk show empties the Zerk’s piggy bank, plus it puts you closer to collecting money bags. This and other actions earn you points. The average, over-active imagination of a game designer probably would have stopped here and said that the object of the game is to collect money bags and score high points. SCA designers went a step further.

After collecting ten money bags, you are rewarded with a unique Zerk cartoon. A Zerk cartoon is a five to ten second animated Chaplinesque sight gag starring the Zerks and the arcade owner. For example, in the cartoon “The Kick Back” a Zerk steals a token from a bin and is chased across the screen only to be blocked by the owner with folded arms. The Zerk pauses then turns and drops the token back into the bin. Then, it’s back to the arcade.

You continue to collect different cartoons with names like “The Squabble”, “The Assist”, and “The Collision”. Eventually, you are allowed to select the cartoon of your choice from your collection. So, the object of SCA is not just to score high but to collect Zerk Cartoons. High scores are saved to disk, but not how many cartoons you collected or to what level you made it.

Now, does Spare Change sound nonsensical? Well, it is. But it is also a lot of fun to play.

As zany as the premise of SCA is, the feature that makes it read high on the fun-meter is the Zerks. They have personalities. The Zerks furiously jump up and down when you snatch a token from them. When you drop a token in the juke box music plays and the Zerks stop their token-stealing antics, run down to the juke box and dance! (This gives you a few moments to work on filling your bin.) Inserting tokens in the pay phone or popcorn machine (at higher levels) has a similar effect on the Zerks. I nominate Zerks for an Oscar for “Best Performance by Animated Characters in an Arcade-Style Home Computer Game”.

An additional feature that recommends SCA is that you can go to a special screen and custom tailor seven different features to determine how tough a game the Zerks play.

In sum, SCA is an exceptionally good game because it has increasing levels of difficulty, strategy is required to outwit the Zerks, and you are given rewards (the cartoons) for mastering each level.
duction line remains the same, but the number of bins you have to fill increases. Plus, their maneuvering characteristics change. At some levels the bins on the far right cannot be moved under certain drop chutes to catch the gumballs.

After level four, the gumball factory goes from the silly to the absurd. It seems that some crazy dental assistants have packed some gumballs with TNT. When these jewels enter the line you must shut down production and disarm them. Frankly, just getting to this level is so tough that you may never have to worry about the big bang.

Gumball is fun for many of the same reasons as Spare Change Arcade: it has levels of increasing difficulty, it rewards you for mastering each level, and it requires some amount of strategy as well as timing to open and close the gates to fill the bins and meet your quota.

**Quest for Tires**

Earlier this year, Sierra On-Line released *Quest for Tires* (QFT) based on the characters from the popular comic strip “B.C.”. In this animated version you guide a Neanderthal unicyclist across prehistoric hills and valleys past various terrain obstacles to save “Cute Chick”.

As the screen scrolls automatically right to left, you move your joystick up to jump the unicycle over holes, rocks and rolling stones. And, you move it down to avoid things like low hanging branches.

Of course, the whole notion of a caveman cruising across the countryside on a stone unicycle is nonsense. But like so many other nonsensical games, QFT is fun to play.

One of the game’s “nonsense” highlights is the encounter at turtle pond. On one side of the pond is “Fat Chick” wielding a club, ready to clobber you. You must wait for her to raise her club and for all four of the turtles to surface simultaneously in order to skip safely across the pond. Another “nonsense” highlight is when you catch on to the ankles of a bird in order to be carried across a deadly pit.

Thwarting your rescue efforts is the craziest cast of characters you are likely to encounter in a home computer game: bouncing scorpions and snakes, hopping fatso’s, twirling knives, honking vacuum cleaners, a witch doctor, man-eating plants, flying turkeys, and more! In addition to the cartoon treat for saving the family, you get points for blasting members of this menagerie.

Drol was originally written for the Apple, so it doesn’t take full advantage of the Atari’s color capabilities. However, the high quality of the animation, the cleverness of the animated foes, and the nonsense of the theme, all make Drol well-worth the money.

**Conclusion**

Arcade games with nonsense themes and silly characters will subside and die off just as surely as have the ones that required you to “move and shoot” or to “chase and be chased”. However, just as surely as there will always be a market for classic Walt Disney animation, there will also always be a market for well done nonsense arcade-type games.
SUNDOG: A Review
by Ken Ryall

The plot behind this science fiction adventure is fairly simple. You are given a star freighter, the Sundog, and sent on a scavenger hunt across space; rounding up supplies and settlers for a new colony. This, however, is really just a good excuse to use a remarkable and innovative game system to wander through an amazing collection of 12 star systems, 18 planets, and over 50 different cities.

In fact, playing Sundog is so enjoyable, that it is easy to forget about the mission. The game's most outstanding feature is a system of icons, menus, and windows similar to those on a Macintosh. These "Zoom Action Graphics" let you worry about playing the game instead of typing in commands. Sundog is played entirely with a joystick, simply by pointing to items in windows that pop up during play.

Whenever your character reaches a significant location, a window appears with a detailed depiction of that area. It might be the ship's storage locker, the interior of a building, or the scene of an encounter on the street outside. You can then select options from a menu or manipulate icons shown in the window. The options might involve piloting the ship, talking to people in bars, or making a withdrawal from a bank. The icons represent everything from food to spare parts for the ship.

This system lets you do many detailed and varied things while avoiding confusion and inconsistency. With it, you can pilot the Sundog to other star systems, explore cities, drive across continents, and make deals on trade goods; all without touching the keyboard.

Trading is your main means of support. Just operating the Sundog is expensive, and as the colony doesn't reward you for bringing them supplies, you will have to make money on the side. Goods bought in one system can often be sold in another for enormous profit; the trick is knowing what is a good deal and where things are in demand. Some deals are fairly obvious. Taking furs to the planet Snowball is usually a sure thing, but markets fluctuate and have to be learned through experience. There is no "blue book" value for Class C Droids. Learning the trading business involves a lot of traveling around to different markets, pricing goods and checking availability.

Along the way, pirates often attack and try to force you to give up your cargo. You can then switch on the Sundog's tactical display and, if everything is working, control the ship's lasers, guns, shields and radio. Ship-to-ship combat is in 3-D, and basically involves changing the Sundog's heading until the pirate is first on the view screen, then lined up in a set of crosshairs. There are some nice visual aids to help with this, and a display showing the amount of damage the pirate has taken.

The Sundog also has a defensive shield system that offers some protection from attacks. Shields are reduced and occasionally knocked down by enemy fire, but gradually regain strength between hits. The problem with both the offensive and defensive systems on the Sundog is that they guzzle fuel at an alarming rate. If you raise the shields and charge up the guns you could blast pirates all day. You can't, however, because your tanks will soon be dry and a ship with no fuel can neither move, fire, or defend itself. Keep
moving. It is better to land slightly damaged at a planet than to end up stranded in space. A distress signal will sometimes bring additional fuel from the nearest planet, but it will usually arrive too late.

If you wish to avoid combat altogether, you can jettison your cargo to the pirates or simply not carry any at all. This is safe, but not very productive. However you decide to handle them, pirates are an enormous nuisance. The profits from a successful trading run can vanish after you repair damage from pirate attacks. As you move around the Sundog, windows will pop up representing storage rooms and repair bays. Each of the ship's major systems has a repair bay, with icons representing various parts. Entering a repair bay is much like popping the hood on your car. Each part is in a specific place and will only work in that place. Missing or damaged parts will usually not cripple a system but will reduce its efficiency and increase its fuel consumption. Like most things in the game, repairing the ship is colorful, detailed and absorbing. Each of the ship's systems require specific parts, which must be found, purchased, then hauled back to the Sundog to be installed in the damaged system's repair bay. It pays to keep the Sundog "in tune" by keeping the bays full of the right parts. Some parts can be swapped from one bay to another, allowing an industrious player to cannibalize some systems in order to get others working. One part, a shunt, is inexpensive and can be fitted in most part's positions. It won't work as efficiently as the original, but can be used as a sort of "band-aid" until an actual replacement can be found.

All the parts, however, are not available on every planet, so it's a good idea to carry around spares in the ship's locker. Then you can rummage around for a spare part to stick in the engines after an attack leaves you stranded in deep space. On some planets you can find special parts that will enhance one of the Sundog's systems. These are quite handy, but usually expensive and easily damaged.

Ship's parts are not the only details you have to attend to during a game. After generating a character you have to keep him fed, healthy, and rested. The hints in the rulebook could have come from a mother, "Remember to rest, get plenty of food, and take care of your health if you get hurt." You can have up to eight games in progress on the Sundog disk and any game can be saved at intervals in case of disaster.

While all the exploring, fighting and profitting is fun, the object of the game is to bring home a shopping list of supplies to the new colony. This proceeds through nine phases, each of which has a list of required items. These include the future inhabitants; cryogenically frozen, and scattered around the planets in warehouses.

This aspect of Sundog is unusual and enjoyable. Instead of destroying something, killing someone, or smashing an evil empire, you construct a new colony. After all the shooting is over, and all your money is counted, you still have to bring home the goods. You are working for someone else, not to fatten a purse or point total.

While playing, you start to feel as if you are actually interacting with a real environment, not wandering over a plywood and paper movie set. Most activities have some resemblance to a real experience. The banks operate like automatic teller machines, the bartenders get angry if you waste their time, and beggars call you names if you don't give them anything. And, in order to buy rare or unusual items you will want to meet with a stranger, perhaps in a secluded booth in a bar, to discuss terms. Even getting robbed is very convincing. Sometimes out on the street you will suddenly be surrounded by thugs who want all your money. You can either hand it over or try to fight. In the latter case running is usually more effective than trying to out-shoot six thugs. Better yet; lower the stakes and don't carry much cash.

In most adventure games, it is easy to find the limitations imposed by the scenario. In Sundog, it is easy to imagine doing anything at any time. Although all your immediate options are clearly laid out, this does not mean that strategies are at all obvious. Broader options, those beyond your immediate surroundings, are discovered only through careful thought and experience. The game is simply so huge in scope that strategies are naturally varied and complex.

While the plot is enjoyable, the real star is the game system. This game sets a new standard for sophistication, complexity, and ease of play. It is for anyone who would like to exercise their skills as a starship pilot, interstellar trader, or warp engine mechanic instead of testing their typing skill or reaction time. Sundog is everything a great game should be; it is immersed in detail, its strategies are complex, and playing it is simple.
There are a number of strategy games on the market which simulate business or economic competition. Here is a new one from SSI that is different. All of the others I’ve seen, whether stock market, real estate or venture capital games, are modern. The lessons they teach can be applied to today’s world. Many, in fact, are used in classes on business.

RAILS WEST is a fascinating simulation of the economic conditions of 100 years ago and belongs more in a class on American History than on business. The railroads were the very first large American corporations and the conditions which allowed their formation were unique. Never again will the U.S. Government give tremendous amounts of public land as an incentive to private enterprise. Nor would today’s venture capitalist feel comfortable loaning a fortune to build a railroad.

Today, the vast network of steel rails that made possible the growth of our country seems to have served its purpose. The last 40 years have seen abandonment, merger, and consolidation. RAILS WEST is set in the period 1870 to 1900, thirty years that saw the construction of almost every major line west of the Mississippi.

Victory Conditions
It was the Age of the Moguls. Some were Empire Builders and some were Robber Barons. The former were in love with Railroads and Progress, the latter in love with money. The game allows you to be either. There can be as many as three winners: the player with the best transcontinental railway, the player with the largest personal fortune, and an overall winner which is a combination of the two. Usually, the overall winner will also be one of the other two but it is possible for a player who finishes second in both categories to take top prize.

This double victory condition creates much of the tension in the game. You represent your own interests but you also control one or more railroads. It is easy to milk the RR coffers to add to your personal wealth and it is likewise easy to impoverish yourself to build up the RR. You can sell stocks and bonds to the public to raise money, but only by giving up some portion of your control over the line and leaving yourself more vulnerable to other players. It is tricky to find the right balance that will maximize the worth of both at the end of the game.

Obviously, it makes a difference whether the end of the game is 10 years away or 30 years away. You can start either in the year 1870 or in 1890. The game suggests that you stop in 1900, but you can really stop whenever you want. If the players know exactly when the game will end, it causes an unrealistic halt in all building near the end of the game. A popular variation here is to agree to stop the game at some point between 1902 and 1912 based on the roll of two dice. After each yearly turn, the game ends if the total on the dice is less than or equal to the last two digits of the year.

The Routes
All play takes place on a map of the U.S. extending from the Mississippi River to the Pacific Coast. All of the routes on which a railroad can be built are fixed and some have already been built. The rest have been surveyed and the Government will charter them to any player willing to promise to build a railroad; first come, first served. Of course, you have to fulfill that promise within a specified period of time or lose the charter.

In 1870, very few of the possible routes have been built. Most of those that have are around Chicago, except for the first transcontinental line of the Union Pacific and Central Pacific, which was completed in 1869. Under these conditions, the game seems to focus on building large, healthy RR’s. The winner will be the player who can finance the expensive building process at the lowest cost. This means borrowing at favorable interest rates and managing cash

NEW! NEW! NEW!

ROME and the Barbarians

ROME and the Barbarians is a fast-paced military simulation of the western Roman Empire’s struggle for survival in the 5th century A.D. This sophisticated strategy game demands that you, as the supreme military commander, exercise a combination of military prowess and clever financial management. Quick and exacting decisions are required to combat the continuously scheming barbarians who ruthlessly attack your cities. A scrolling map of Europe displays the multiple battles in which your troops are engaged. The action is lightning fast!

NAPOLEON AT WATERLOO

NAPOLEON AT WATERLOO is a historically accurate recreation of the battle still studied by military scholars. As Napoleon Bonaparte, you command the French Imperial Army. You must lead your infantry, cavalry, and artillery units to victory over the combined weight of the Anglo-Allied and Prussian armies. A scrolling map of the battlefield displays the terrain and combat units. Information on the strength and morale of your units is instantly available as you constantly assess the situation. The command system is surprisingly simple, allowing you to devote your time to planning intricate maneuvers or to just sit back and watch the action!

Available on disk or cassette for $34.95 for ATARI computers with 32K RAM and joystick. Kansas residents please add $1.75 tax.

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flow through the various depressions and booms.

If the game starts in 1890, almost all of the lines have
been built and the character of the game is different.
Now the action centers around buying and selling stocks and
bonds—fighting for control of the best RR's, looking to pick
up bankrupt RR'S at bargain prices, and raising dividend
rates to transfer some of the RR profits back to your
personal account.

The Play

There can be as many as eight players in RAILS WEST.
Of these eight as many as four can be controlled by the
computer. There are also four levels of difficulty which are well
implemented, with level four being a challenge for begin-
ners but not for experienced players. To start, you indicate
the number of players, select a start date and whether you
want a historical setup or a random one.

The players take turns performing operations. At the
earliest level, all human players take their turn before any
computer-controlled player. At the two hardest levels, it's
just the reverse. At level three, there is no discrimination
between human and computer.

The amount a player can accomplish in one turn (year)
is limited by Action Points, of which you get five to eleven
per turn. The Operations menu lists nine activities which
use up one point each time they are selected. These
include—as you might expect—buying and selling stocks
and bonds, and applying for and repaying loans. You can
also start a new railroad corporation, make an attempt to
control an existing one in which you own stock, or “switch
hats” to perform some action on behalf of a RR which you
control. There are also three choices on the menu which
do not use action points—these allow you to review current
information on prices, routes and railroads.

When you act on behalf of a railroad, you do many of the
same actions. These also use up your action points;
especially merging with another line, which takes three.
Many times you can favorably affect the price of a stock or
bond by selling them in several small quantities instead of
one big one. This approach also uses up action points
rapidly. Starting a new RR normally takes 3 or 4 action
points too. Not only must you start the company, but you
should charter a line, acquire some capital, and begin
building.

Conclusions

RAILS WEST is an excellent game but it is not for
everybody. It can be exciting, but only if the players under-
stand the complex financial situation. You need to develop
a sense of timing to know when to convert debt from loans
to bonds, or when to raise dividend rates.

It is difficult to recover from early mistakes. Thus it will
take several games before you feel competitive with the
easiest computer opponents and games are not short. It will
take 20 to 30 minutes per turn at first, which means even
the shortest five year scenario will run two to three hours.
Much of your time will be spent pouring over a bewilder-
ning amount of data. I strongly recommend that you print
everything on the printer (all reports can be directed to
printer or screen) to make this easier.

There is an interesting side issue here. As computer
simulation games become more realistic (complex), there
is more need for the same kind of tools that we use to
analyze the situations which are being simulated. I was
very tempted to use VisiCalc or Lotus 1-2-3 to figure out
what was going on in RAILS WEST. Which game will be
the first to include a planning aid, or at least the ability to
load data into one of the popular electronic spreadsheet
programs?

RAILS WEST has the high-quality components one ex-
pects from SSI. It is lots of fun when all of the players are
humans, even if they're inexperienced. It would make an
excellent classroom exercise in the hands of a competent
teacher.

QUESTION: What computers are you targeting for? How do you rank the priority of computers that you are developing games for?

CULLUM: The feedback we are getting from our dealers and customers has caused us to put a priority on the Commodore. Then Apple and Atari. Avalon Hill tends to be conservative so we are taking a wait-and-see stance towards the Macintosh. MEIR: The Commodore is the computer of choice right now. Apple has been picking up somewhat, and Atari has been so-so recently. CRAWFORD: Macintosh is number one because it is the most powerful machine out there. And it will have a decent enough marketplace. The Commodore is number two for the short term. For the long term Commodore is a big question mark. Number three is Apple II. After that it all sort of dissolves into a pile of IBMs and Ataris.

BUNTEN: I don't think any of us are answering this question on the basis of what are our “druthers” (with the possible exception of Chris). We are answering according to what makes good business sense. If you are going to stay in this industry you have to respond to the market. Very few people feel strongly about the Commodore being a big plus (Ed.—as a programming machine?) except for the fact that it sold well and therefore there is a very good market for C-64 games. So we write first for Commodore, second for Atari, then Apple and Macintosh come later.

ADAMS: I still think Apple is going to do very well; especially now that they have released the IIc. People are really into small machines and the IIc is small, and has powerful gaming features. The real kicker in this whole discussion is the IBM. The IBM market is so vast out there. The trouble is that you cannot sell anything for the IBM if call it a “game”, it's got to be called a “simulation”. Flight Simulator came out and sold a couple hundred thousand copies because everyone got to fly the corporate plane. So, if someone came out with a corporate wargame... (laughter drowned out his discussion which mentioned something about Ford Motor Co. attacking GMC.) Anyone that could crack the IBM market will walk away with a nice plum. But to do it you almost have to redefine what you mean by gaming.

WOODHEAD: I don't write games to make money (Ed.: much laughter from the audience as well as the rest of the panel). I write games because I want to write them. If they make money that's fine. In fact, that's great.... My major development effort right now is on the Macintosh. It's a nifty machine with a lot of power. You can do so much with it.

GARRIOTT: I agree with Robert on both my motives for writing games and also the long term effects of the Macintosh. The Mac is so much more powerful than any of the other machines currently available. If it doesn't do well, something will have really gone wrong. However, for the current situation, I disagree with everyone else's strategy for the Commodore. If you start writing on the C-64 or the Atari with their fancy graphics, features which the Apple does not have, the translation up to the Apple is far more difficult, perhaps even impossible. All of our authors are writing on the the Apple. The translation to the Atari is very easy, as long as we are working in machine language. The conversion from the Atari to the C-64 is even easier (after some graphics changes). It works well and everyone is happy.

BUNTEN: But IS everyone happy? You Atari and Commodore people in the audience, are you happy with the Apple rewrites?

AUDIENCE: No!

GARRIOTT: The only problem with that is that if the game is written on the C-64 or Atari with sprites, the Apple version will never get done. From a publisher's point of view that's not money wise. Publishers have to be sure that whatever game they do can reasonably be translated to other computers without having to do a total rewrite of the game.

QUESTION: Where do the panelists think computer strategy games are going in the future?

CULLUM: More graphics, more memory. I would love to see a half-megabyte game, I think it would be fantastic. As for Avalon Hill, we will continue to make more historical simulations ("wargames" is a term that is acceptable to this audience, but for many it isn't, so we call our games, "historical simulations"). The marketplace will continue to demand more graphics or arcade style action. If you've got a flight simulator or a Battle of Britain game, the players are going to want to "go up there and shoot it out".

MEIR: I think there is a lot of room for
improvement in the current generation of strategy games. Basically, I believe we are at the first level of what can be achieved. One area that I think will see a lot of work in the days ahead is the quality of the computer opponent. Another area that we have not touched on is the interactive game via modem and/or network. Strategy games have a lot of potential in this area.

CRAWFORD: The major problem facing the design community right now is the unnecessary polarization between the visceral and the cerebral; between the fast paced shoot-'em-up game and the strategy game. Everyone is trying to define games in terms of a scale between these two "extremes". The solution which is coming slowly, is another dimension to gaming, namely the interpersonal element. I do not mean interpersonal in the sense of playing with another person, but rather the social element inside the game. Games right now concentrate on "things". My slogan is "People, not Things!" Ultimately, most of us do not really care about "things". The most important "things" in life are our relationships with other people. Our games should reflect this. If you imagine a novel or a movie with no people in it then will see why I think games are so sterile right now. We need to put characters, REAL characters, not just something with a certain number of hit points associated with it.

ADAMS: One of the reasons so many hard core D&D players don't like computer adventure and role-playing games is that they are so conventional. There is no real Dungeon Master in the game; no feeling of human unpredictability. I think Infocom is striving to solve this problem, but they have a long way to go. The next generation of computer adventure games will need to put a feeling of spontaneity into the game.

WOODHEAD: I see two major developments occurring over the next few years. On the hardware end: someone is going to start delivering software on digital audio disks. The three hardware limitations in computer game design are the speed of the computer, the amount of RAM, and the amount of disk space you have available. The disk space can be a major limitation, especially when you are trying to model something well. On the software end: with improved hardware we will begin to see games based on "expert systems". An expert system is a complex computer program that a very large database that allows it to make judgements. These expert systems are already in use in many areas of business and science.

If your database is large enough, an expert system should be able to realistically mimic roles of human beings in adventure games. You could have Inspector Clouseau wandering through a game, controlled by a very defective expert system. Or you could have a Sherlock Holmes wandering through an adventure, appearing, disappearing, asking questions, etc. Look for these kinds of games in about three years.

GARRIOTT: The current trend is for better graphics and animation as well as deeper plots (in adventure games). Ultima IV, which I currently working on, has completely animated graphics, a full six-voice synthesizer, and an improved "discussion algorithm" which makes interaction more realistic. Graphics, sound and depth is where we all have to focus currently.

BUNTEN: Most of the panelists fall into the adventure/role-playing camp or the wargame estratégia game camp. My recent efforts don't really fall into either. M.U.L.E. is more of a family game. It feels more like Monopoly than anything one would include in the strategy or adventure game category.

While the market for wargames and adventure games is large, there is an enormous market for people who don't have computers yet, who don't care about board games at all, who have never played anything heavier than Trivial Pursuit. Games, to them, are already too intimidating. Games have got to become friendly, simple, easy and yet, deep! A good game makes it trivial for these people to figure out what they THINK they want to do, but the difficulty must be in figuring what they really NEED to do to solve the puzzle.

If we can get people to sit down at a game and through their own intuition, figure out how things are and what things will occur, THEN we can make the next break into what games really can be.

QUESTION: What are each of you working on now?

WOODHEAD: Macintosh Wizardry, plus we may have a TRS-80 version coming out. We have two Apple Wizardry scenarios in the works. One is a sequel to Legacy of Llylgamyn (as yet unnamed). The other one is The Return of Wyrdna, and Roe Adams is doing the design.

CRAWFORD: I'm working on a game for the Macintosh entitled ARMS RACE based on the philosophy that "H-bombs don't kill people. Geopolitics kills people."

MEIR: We are continuing to write games for the wargame market on the C-64, Atari and Apple.

CULLUM: We are going to be doing a lot of conversions of our classic board games to the computer. We are converting some of the Victory Game Co. board games. We are also working on Status Pro Football.

BUNTEN: Softscape is working on the Apple version of Seven Cities of Gold. The IBM version is going to be out in the fall. The Macintosh version will be out before Christmas.

Next year ORIGINS will be in Baltimore. Look for more information in a future issue.
COSMIC BALANCE SHIPYARD DISK

Contains over 20 ships that competed in the CGW COSMIC BALANCE SHIP DESIGN CONTEST. Included are Avenger, the tournament winner; Blaze, Mongoose, and MKVP6, the judge's ships. These ships are ideal for the gamer who cannot find enough competition or wants to study the ship designs of other gamers around the country. SSI's The Cosmic Balance is required to use the shipyard disk.

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ROBOTWAR TOURNAMENT DISKS

Diskette #1 contains the source code for the twelve entrants in CGW's Second Annual Robotwar Tournament. Diskette #2 contains the seventeen entrants in the Third Annual Robotwar Tournament. Muse Software's ROBOTWAR™ required to use these diskettes. Please specify which diskette when ordering. $15.00 each or $25.00 for both.
ROAD TO MOSCOW (RTM) is a new strategic level game covering the Russian Front during World War II. While not as comprehensive as SSI's WAR IN RUSSIA, this game is quite good on its own. All of the main features of the campaign have been nicely incorporated into a very playable game. The German armored spearheads will spring forth from their starting positions and race towards Moscow, Leningrad, and the Ukraine. But Soviet resistance, supply problems, and the weather, will all combine to wear out your forces and bring you to a halt just as winter sets in.

The rules for RTM are short, clearly written, and include historical notes about the campaign. The one year scenarios take two to four hours to finish, and the campaign game takes ten to twelve hours. The game is solitaire only, with the computer directing Soviet operations.

The map is a 40x24 representation of European Russia and adjacent areas, all on one screen. This allows a complete view of the entire map without scrolling. The map is rotated 90 degrees with North being on the left of the screen, rather than at the top. Units can be either standard military symbols or icons shaped as tanks, infantry, or cavalry. Each turn represents two weeks of time, and the units represent corps for the Axis and armies for the Russians. Terrain includes clear, forest, swamp, river, mountain, city, ocean and lakes and the map is divided into squares rather than hexes.

The scenarios cover the entire campaign as well as four shorter one year scenarios for 1941-44. Games in progress can be saved to the program disk, but you can only have one saved game on the disk at a time. There are ten levels of difficulty to keep the game challenging. Victory conditions revolve around control of key cities, with different cities listed for each scenario. Ed. Note: Early copies of the game had a problem with the SAVE GAME feature. However, Ba'rac tells us that the problem has been solved.

The 1944 scenario is probably the most difficult. In it, you must try to survive an incredibly powerful Soviet assault that will tax your defensive skills to the limit. The forces that you command will literally evaporate in the face of this attack unless you can come up with a good defensive plan.
Movement and combat are handled smoothly. Orders are given for each unit with either the joystick or the keyboard. You can examine each unit’s status, current orders, and level of fortification. As orders are given, units change color from black to grey, allowing you to easily see which units still need orders.

Units can entrench and fortify themselves. If left undisturbed for one turn, they entrench, adding 50 to their defending strength. After a second idle turn, they are doubled against attacks.

After all orders are given, movement and combat occur. Units trying to enter enemy occupied squares initiate combat. As combat causes units to fall below half strength, they change color. Axis units go from black to blue, and Soviet units go from red to orange. This technique is very helpful in keeping track of events all across the map without having to examine each unit after a combat phase.

Starting in 1943, the Soviets receive artillery units as reinforcements. These units can fire one barrage of five times their normal strength, even when not adjacent to German units. When this is followed by a full scale attack, you will usually end up with a hole in your line. Artillery units disband after one barrage, and are then rebuilt as reinforcements. Only two Soviet artillery units can be in play at once, but two is more than enough. The Germans do not have artillery units.

The changing of the seasons brings mud and then snow to the game. When the mud arrives the ground changes from light grey to yellow. Movement slows to a crawl, and supply is more difficult for German units. The mud season is followed by snow, shown as a bright white background. Movement and supply are somewhat easier, while swamps and rivers freeze. During 1941 and 1942, Axis units cannot entrench or fortify during bad weather, so if you want to survive the winter, stop your advance in mid to late September and let your units entrench. If you don’t do this, be warned that the Russian winter attacks will tear you up rather badly.

My major complaint with this game is that the map does not cover enough ground. In playing the 1942 scenario, you will not be able to duplicate the historical events because the Germans advanced beyond the southern edge of the Road to Moscow game map by more than one hundred miles. A game about a particular battle should at least have all of the battlefield on the map. To me, this is an annoying flaw in an otherwise outstanding game. This problem, however, doesn’t affect any of the other one year scenarios.

One of the most interesting aspects of the game is the importance of maintaining reserves. The timely rotation of depleted units out of the front line is critical. You CANNOT afford to have any units destroyed. As units lose strength, they must be replaced by fresh units. Try to keep at least some reserves behind each sector of your front. Your line will always be under Soviet attack at one or more points. Often the German units facing these assaults will be severely weakened. If they are not replaced by fresh units, they will often be destroyed. This is where the ability of adjacent friendly units to trade places is important. Order the weak unit to move back, and the fresh unit that you cleverly placed behind it to move forward. They will exchange positions, and the Soviet unit that was itself being worn down by it’s constant attacks will often become exhausted, or even destroy itself in attacking this new German unit.

My overall evaluation of the game was quite favorable. Even with my complaint about the map, I enjoyed the game. The ten levels of difficulty allowed me to keep the game challenging as my skills improved. The combination of ease of play, interesting scenarios, an excellent game system, and numerous strategic options will keep me playing RTM for a long time to come.
THE COMMODORE KEY

WARGAMES

Roy Wagner

The reader survey results published in the previous issue of CGW revealed that wargames are our readers' favorite type of computer game. Seventy-three percent of the readers played a wargame at least five times a month and forty-eight percent considered it their favorite type of game. In response to that strong interest, this month's column will discuss some of the various kinds of wargames available for the Commodore 64.

I enjoy the thought process that goes into playing a wargame as much as I dislike the concepts carried through in actual warfare. I only wish any wars which needed to be, could be "fought with honor" using computers with a respectable acceptance of the results, rather than the physical injury and loss of human lives. There are many things we will do when playing a wargame that hopefully we would not do so readily in actual warfare, such as sacrificing a game piece (representing human lives) to gain a strategic advantage. But enough of idealism, off to war we go.

Arcade games, for the most part, are wargames. Whether it is man-to-man fighting with Pac Man or defending against assaulting waves of invaders from space. Those types of games that are more reflex than realism we will pass by for others to review. However, there are arcade-like games that are worthy of mention.

Choplifter and Fort Apocalypse have some redeeming features of realism rather than pure shoot-to-kill and score for the dead or destroyed. Their object is to save lives. The enemy is there to prevent you but points are given most for life rather than death. Blue Max (WW I) and Zaxxon (WW II) simulate bombing/straffing runs against enemy targets. With these, destruction ranks high as your object. The graphics in all are very well handled.

Beach-Head (from Access) consists of several arcade like scenarios that are piggy-backed one upon the other. You are required to defend against an enemy aerial and sea assault, traverse a mined and torpedoed boat patrolled bay, land your tanks and maneuver them across a beach protected by numerous obstacles, and finally destroy the huge enemy fortress by accurately firing ten shots. This game is still arcadish, but the situations are nicely handled.

The last game of this type, also the newest and best in it's overall presentation, is Raid on Bungling Bay from Broderbund. Your perspective if the action is an aerial view of several islands (map and area radar provided). You, as the pilot of a helicopter, start from an aircraft carrier which provides you with repairs and bombs. You have, though, unlimited gun fire. The object is to seek out and destroy enemy factories and prevent the construction of an enemy battleship that is being built as you play. Once complete, the battleship will seek out your ship and end your game. To help accomplish your goal, you must also eliminate enemy radar, defensive artillery, patrol and supply ships, and assault jets. The action is fast and real time. The aerial graphics are sensational and scroll extremely fast.

The next category of wargames are more like board games, yet with rules and methods of play that are simple enough for someone never before exposed to a board or miniatures wargaming. In other words, they are more user friendly than most of the board game type wargames.

My favorite computer wargame in this category is Combat Leader from SSI. It has simplified your role to issuing commands while the computer executes the moves and displays the action. You command your troops as either squad, platoon, or company commander. You enter very simple commands (single letter) and point out areas of action. The action takes place in real time, with your troops moving while you issue orders. I only wish the graphic representations were larger (each man is a single pixel). This game has unlimited options of play with all types of terrain and tanks/troop carriers available. I hope to see more games like this, such as Sea and Air Combat.

The game of Fighter Command, which I am converting to the Commodore 64, is similar to this concept. The player acts as operations commander. The graphics are minimal, being large overview maps of England, and action commands are issued as needed based on up to the minute reports. The war activity takes place automatically based on enemy strategy and your orders. One day to thirty-four day scenarios are available.

A wargame that is more role playing is Fifty Mission Crush from SSI, wherein you pilot a WW II B-17 bomber and attempt to complete 50 successful bombing missions over France and Germany. You control your gunners and decide upon the bomb/fuel ratio carried on a raid in this historically accurate game.

After games that take care of the moves based on your commands, come games that are basically computerized board games. War games have existed as board games nearly as long as warfare itself. After all, Othello, Chess and Go are ancient wargames, now also available as computer games.

A greatly simplified, yet very well done board-like wargame is Operation Whirlwind from Broderbund. This game introduces the classic features of board wargames. There are levels of difficulty with game turns in phases (command, movement, combat, assault order, and assault). Symbolic (icon) pieces/units have movement, firepower, range, and strength values that vary for each type of unit (infantry, engineer, light & heavy tank, and artillery). You cursor to each unit you wish to perform an action and instruct it individually. Enemy movement and action occurs automatically after you finish each phase. The game has a very well written manual and is an easy introduction to this type of game to anyone. The game is well done graphically using a scrolling map. The map is the same for all levels of play.

After this comes the pure board-like wargames. The rules and graphic presentation of these are very similar to the board games. Many show the conventional hex mapping technique. Most of these games are better than the board games, as solitaire play is handled by the computer and the difficult aspects of the board games are now handled by the computer. No pieces to lose or move wrong, no tedious die rolls to resolve situations, no tables to frequently consult, no rules to forget or interpret wrong; the only difficulty with these games can be understanding the instructions. They are not easy to play without knowing how.

A buyer/player of these games must pay close attention to how the game is categorized: Introductory/Beginner, Intermediate, or Advanced/Expert. Nearly all these games offer one and two player options, and the computer will often play either side. The one player (solitaire) play is only as good as the computer player's algorithms (programming that handles the computers actions).

SSI and Avalon Hill are the leading producers of games of this type. Some of the titles available for the Commodore 64 from SSI are Tigers in the Snow (Battle of the Bulge), Knights of the Desert (North African Campaign), Battle for Normandy, Germany 1983, RDF 1985 (Saudi Arabia), and Baltic 1985. The latter three are games of fictional warfare with Russia based on the modern weaponry Avalon Hill has available Midway Campaign, Panzer-Jagd (Russian Front 1943), and TAC (Tactical Armor Command)

That is the end of our battle plan for this issue. Next time I will discuss the second most popular type of game, the adventure/role-playing games. I also will offer some suggestions on how to best spend your holiday money before the new year comes.
Welcome to our newest column: Strategy Game Tips. SGT will print strategy tips from you, our readers. The column will be limited to printing tips and strategies on strategy computer games. This includes wargames, sports games, economic and other “real life” simulations and games in the classic style (such as Pen and Paper or Fortress).

DISCLAIMER: The tips printed in SGT are those of the authors. We try to avoid printing tips that don’t work, but we cannot playtest all, or even most, of them. So, let the player beware.

Tips can be mailed to Strategy Game Tips, c/o Computer Gaming World, P.O. Box 4566, Anaheim, CA 92803-4566. Try to keep tips under 250 words if possible. Payments for tips and strategies used in CGW will be two issues of CGW. Please specify if you are already a subscriber when sending your tips.

**STRATEGY GAME TIPS**

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**WAR IN RUSSIA**

When playing the Barbarossa Scenario in WIR there are several costly mistakes to avoid. First, pick one main target to try for and send most of your armor there. Attacking both Leningrad and Moscow is almost certain to lose you both. Don’t attack just for the sake of attacking, it’s a sure way to leave yourself weak for the winter. Move as fast as you can until Smolensk falls... don’t let them entrench. Don’t attack with highly fatigued units. Keep your airforces moving forward, only using them in groups of 100+ Air Points and against tough hexes. Concentrate your armor into only one or two attacks. Finally, don’t attack a fortified city unless its isolated from supplies and heavily bombed first.

Paul Murray, SSI

For the German player in War In Russia, where he builds rail hexes has a great impact upon his chances of winning the game. In the NORTH you should build a line through the following hexes: 2,17; 3,17; 4,17; 5,16; 6,17; and 7,17. This brings you to Smolensk. From there you can build to Leningrad, Rzhev, or Bryansk (depending upon your goals in the north).

In the SOUTH build out of Lvov as follows: beginning on turn 3: 4,25; 5,24; 6,24 and 7,23. This will bring you to Kiev. From there you can build northeast towards Kursk, or southeast towards Dneprop’vsk. If a Deep South strategy is to be used, consider this route: on turn one build at 6,27. Then follow with a northeastern advance thus: 7,26; 8,26; 9,25 and 10,25.

Joel Billings, SSI

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**GEOPOLITIQUE 1990**

Early in the game, use your Political Action Points (PAP’s) defensively. Use them in areas in which you have or want to obtain agreements. Garrison areas where you have military agreements as soon as possible, thus freeing up the PAP’s previously committed to defend these areas. Also, if at all possible, have a friendly country next to each garrisoned area, so that in the event of a coup, your forces will have somewhere to retreat, instead of being eliminated.

Commit all industrial capacity points to raw materials production except for the minimum industrial points needed for military maintenance and mobilization. This will result in a high growth rate, provided that you secure economic agreements with other countries.

Go for Japan, the UK, and Western Europe as your first priorities in any scenario, either to defend or in which to obtain agreements. Place readied military units adjacent to countries with which you plan to negotiate. This will help greatly in influencing the negotiations.

Once you have built up your economy and garrisoned key countries, launch a diplomatic offensive using as many PAP’s as you can build each turn. Interfere with obvious Soviet diplomatic targets, and go after any non-garrisoned areas in which the Soviets have agreements. This strategy has several drawbacks, but it can produce solid victories if you do not totally neglect military preparations.

Larry Farmer, Doraville, GA

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**CARRIER FORCE—MIDWAY**

Gary Grigsby’s CARRIER FORCE. MIDWAY scenario can be a difficult and frustrating battle for the US forces. But by taking a desperate risk, an overwhelming victory can be achieved.

Using random setup, the location of the Japanese troop transports is still known. Disregard the strategy notes in the rulebook, and here’s the risk: ignore the threat of the enemy carriers and launch everything at the transports. If your luck holds, the Japanese carriers will be out of range, and will not normally move towards Midway until nightfall. This should leave you un molested to pound the transports for the entire first day. Also, create and detach a cruiser TF to move among the transports for surface combat.

At nightfall, move to two or three hexes SW of Midway. Launch all aircraft to rendezvous at Midway at dawn (this is where all the Japanese TF’s can be expected to be). Then, as soon as the sun rises...

The Japanese forces should then retire to the NE where the US carriers should now be in position to pick off stragglers on their way past.

Of course, the risk is considerable. If the Japanese carriers are NOT out of range... or IF they are too far
The US cannot trade punches with the superior Japanese forces. This strategy can deal the US an embarrassing loss. But, on more than one occasion, this strategy has scored over 11,000 points, while sinking more than 50 Japanese ships, including ALL their carriers. 

Ed. Note: While this strategy may well work, we would like to point out that the risk involved would be considered prohibitive historically. Those few American carriers were considered all that stood between the IJN and the Hawaiian islands and ultimately the West Coast. If this strategy had been used and the US had been clobbered, the defeat would not have been “embarrassing”, it would have been Fatal. BUT, Carrier Force is only a game, so....

Richard Thuriot, Racine, WI

OPERATION WHIRLWIND

Those familiar with Broderbund’s OPERATION WHIRLWIND are all too familiar with the frustration of having strong advancing forces temporarily delayed by one or two enemy units. This strategy should help.

Do not advance units along both roads. As the northern and southern roads separate the two groups too far apart to provide mutual fire support, all a two-pronged advance accomplishes is to divide forces and cut firepower by half.

Wheel the northern forces down the initial north-south road to join the southern forces as soon as possible (their route along this road should be unhindered by enemy fire). Then, with the enjoined forces, obstacles along the southern road should be more easily eliminated with concentrated firepower.

This opening strategy does not change the available options and tactics once the town is reached. A defensive line still must be established, while additional forces still must penetrate and secure the town itself. But, this strategy should allow a few more turns to prepare the defenses and take the town before the inevitable counterattacks.

Richard Thuriot, Racine, WI

KNIGHTS OF THE DESERT

The first turn of Knights is very important. To conserve fuel and operation points, attack the 2nd British armored division with all available units at intensity four with three air power points. Attack the depot further up the road in the same manner with two mechanized regiments at intensity four. Take your army and march on Tobruk. Surround it with Italians, using the armored units to by-pass it and attack Bordia. The turn should end with Tobruk surrounded and Bordia captured.

Chuck Kroegel, SSI

PARIS IN DANGER

The strategy chosen in any wargame should always be dictated by the victory conditions. Obvious as this sounds, it is often easy to be so involved with the nuances play as to forget the goal. This is particularly true in “Paris” because of the very fine tactical level of play available. Unfortunately the victory conditions are such that the Allied player would do well to play the entire game without ever having to fight a pitched battle.

The Allied player will score one point for each town captured and thirty points for Paris — a possible total of 91 points. The French receive one point for each 750 Allied casualties. If each Frenchman were to take one Allied soldier with him, the elimination of the entire French army would provide some 153 victory points! Given these conditions, it becomes obvious that the Allies should avoid combat while the French should fight at any odds. The winner is the first player to score 60 points or with the highest count at the end of 25 turns.

Tactical Observations: Finesse in the use of cavalry and reserves is the key in Napoleonic battles. The enemy line should be engaged and worn down, his reserve largely committed, before seeking a decision by the charge of your massed cavalry. Charge to soon, and defensive fire will devastate your units. When on the defensive, hold your reserve cavalry well too the rear and use it to smash any breakthrough by flank attacks. Timing is all important. The tactical game revolves around questions of when to charge, what formations to assume, and where and when to commit the reserve.

Fred Jacobs, Petaluma, CA

OBJECTIVE: KURSK

The German problem in SSI’s “Objective Kursk” is advancing to the north edge of the map to capture Prokhorovka, Oboyan, and Kursk. To provide flank protection and still have enough strength for the drive north the utmost economy of force should be practiced. The German must also take care to maintain his supply route south through Belgorod. This operation is carried out in two phases: the initial penetration and destruction of the Russian front line, followed by the exploitation to the north.

The assault should be carried out north of Belgorod along the main road to Oboyan with the rivers and gullies on the flanks used to protect the line of advance. The initial break-in and resulting dogfight will probably consume the bulk of the time available leaving only two or three days for the advance north. The first phase ends with most of the panzers in the Oboyan/Prokhorovka area.

Phase two should encounter little resistance except for any garrisons in the target cities. If the German has not taken heavy losses, some of his force can be used in a drive toward Korocha. The primary goal, however, is Kursk and at least three or four strong panzer divisions will be needed north of Oboyan. The remaining units will be used to fight off Russian attacks seeking to cut the German line of supply.

Tactical Observations: There is little point in leaving the infantry divisions in the area northwest of the river. They should be moved east for use as flank protection in the drive north. When setting up defense lines, take advantage of gullies. Units attacking out of them are halved while units attacking into them are doubled. This should enable you to set up “killing grounds” to deal with advancing soviet units. Since disruption results are cumulative, it is often advantageous to use a “one two” punch to eliminate a strongpoint. Hit it on the first segment with assault attacks followed by a mobile attack and exploitation on segments two through four. Because supply is very important, see that all road-minefields are cleared as you advance. At times it may be necessary to detach engineers for this job. Take full advantage of your artillery. Infantry in static mode should bang away with their field howitzers at anything in range. The German does not have time to play it safe. He must penetrate the Russian line the very first turn to isolate and surround as many units as possible. Remember that you can retreat through your own units in assault or static mode so long as stacking is not violated. Use bombers to disrupt and immobilize enemy units in your rear supply areas so that they can be mopped up by mobile forces.

Fred Jacobs, Petaluma, CA

Well, that wraps up the first installment of SGT. Oh, by the way, if you have any good ideas for a title for this column, drop us a line.
SEASTALKER

There you are, cozy and safe in your research laboratory, hunched over your workbench, studying the diagram of your futuristic submarine, the "Scimitar." Suddenly, the videophone alarm begins to blast, but you're so engrossed in your work that you don't look up until your friend Tip Randall rushes to your side yelling, "Patti, snap out of it!" You pick up the microphone and speak with Zoe Bly, Commander of the undersea Aquadome. The information she relates is bad: An enormous sea monster is battering the Aquadome, and you're the only person who can help. Your quiet studies are at an end, and your adventure begins.

SEASTALKER, Infocom's newest "interactive fiction," is not for experienced adventurers. Indeed, the game is labelled by Infocom as a "Junior-Level" adventure. Gamers who have come to know and love ZORK, DEADLINE, or STARCROSS will be disappointed with SEASTALKER. A good Infocom as a "Junior-Level" adventure. Gamers who have come to know and love ZORK, DEADLINE, or STARCROSS will be disappointed with SEASTALKER. A good player will be able to solve the game within a couple of hours, and that's not a whole lot of fun for the price. However, youngsters and beginners may enjoy SEASTALKER, and its "tutorial" aspects make it a perfect introduction to text-only games.

As always with Infocom games, the program diskette is accompanied by several superbly written and illustrated documents. The "Scimitar Logbook" contains detailed diagrams of the submarine, the laboratory, the aquadome, and a variety of submariner gear. A nautical chart of Froton Bay, as well as nine "Infocards" with hidden clues and descriptions of people and equipment, are included in the game package. The novice adventurer will want to frequently refer to these materials, but an experienced player can make the game more difficult by ignoring these documents. You could try running through the game without reading the hint booklets, then refer to them later to see what you might have missed.

Even if you refuse to peek at the "Infocards," you will still encounter a lot of unavoidable "hand holding" in this game. Your buddy Tip Randall has a marked tendency to offer advice, especially in tight spots. For example, when the videophone malfunctions, Tip suggests that you check out the problem by using the Computestor. Later, when you finally encounter the sea monster (the "Snark"), Tip grabs the throttle and halts your sub saying, "This isn't mutiny, Patti! I just figured we should stop now." Other characters in the game also volunteer timely information, and the program occasionally refers you to the Infocards: "If you want a clue, find Infocard -4 in your SEASTALKER package. Read hidden clue -1 and put 'electrolyte relay' in the blank space." The Infocard decoder consists of a piece of red plastic that allows you to decipher the printed clues on each card.

Perhaps you're wondering why Tip addresses me by name. Well, in this "interactive fiction," you really are the main character. After booting the game diskette, you're immediately asked to enter your first and last names, and the story is thereafter entitled "SEASTALKER: Your Name and the Ultramarine Bioceptor." In replaying the game for this review, I had a few chuckles by changing my name to "Peaches LaRue" ("Peaches, snap out of it").

Depending on which brand of computer you use and whether you have a printer, you may use the "script" command to simultaneously print out a transcript of the game. A transcript of the story is an added bonus, particularly for beginners who want to check and correct their mistakes.

The SEASTALKER plot is quite simple: The underwater Aquadome, staffed by Commander Bly and a crew of five technicians, is being attacked by an enormous mutant creature. Treachery is suspected, and you, along with your pal Tip, have precious little time to find the traitor(s) and incapacitate the Snark. The Aquadome staff is a gossipy bunch; they seem to enjoy discussing one other, sometimes in great detail. By following certain individuals and questioning them, you can quickly discover who's telling the truth and who's not. The only difficult segments in the game involve underwater travel and combat. It's easy to smash into a submerged obstacle or to fumble your moves when you're chasing that tentacled sea monster.

As usual with Infocom games, humor takes the edge off of your failures: "Uh oh! Its rocket weapon is swinging slowly in your direction! As you and Tip eye each other despairingly, one thing's for sure: THE ADVENTURE'S OVER!" Infocom's famous parser accepts and understands over 800 words, but if you enter a really strange command, you might receive these types of responses: "What a fruitcake!" or "I assume you mean turn on the reactor.

To save moves, you can enter numerous commands on one line. For instance, the following command string works just fine: Close reactor then turn on engine then open throttle then open gate.

There are a few little inconsistencies or glitches in the program. For example, you aren't allowed to turn off the microphone and drop it without saying "Goodbye" first. You can hand the mike to Tip and then walk away, but the program subtracts 3 points from your score if you don't say goodbye and then solve an additional problem. When you visit the aquadome's storage room, you're told that there are several supply shelves with mechanical, electrical, and chemical supplies. But when you ask to examine the mechanical (or other) supply shelves, you're told that "You can't see any mechanical supply shelf here!" Searching, even searching very carefully, reveals nothing. Although several important items are indeed in the storage room, other characters have to tell you about these items before you can pick them up. It's also odd that your sidekick asks you questions (leading questions, naturally) regarding certain issues which were raised — in your and his presence — by a crew member. These conversations were obviously placed in the program to help you along, but they aren't "realistic."

SEASTALKER, written by Infocom's Jim Lawrence and Stu Galley, is a fine game for new players, especially young kids, who may need extra help. Puzzle-loving adults and experienced adventurers should stick with Infocom's more complicated games.

Patricia Fitzgibbons

Name: Lords of Yore
Type: Fantasy Adventure
System: Apple II
#Players: 1-4
Author: Jon F. Baxley
Trey C. Johnson
Publisher: Softlore Corp.
San Antonio, TX

Lords of Yore (LOY) is a game of strategy, tactics, and diplomacy set in the era of knights and chivalry. You and your opponents begin the game with an equal number of troops and wealth, but with a different geographic situation in your respective shire (you can also impose handicaps on your opponents if desired). Your objective is to eliminate the opposing Lords and

Continued on page 42
would not be as detailed as that of Infocom, most players probably wouldn't notice. He gave an example: "You can do something like the following: Pickup all the gems then climb the walls and go east and look in the crib and get it".

This announcement was met with murmurs of approval, and Scott mentioned he was thinking of re-releasing his first 13 adventures with the new interpreter. When he asked the audience if they thought this was a good idea, they responded with a unanimous "Yes!!!

During the question-and-answer session that followed, Scott revealed that he plans to bring out his first 14 adventures for the IBM, with both full graphics and the new SAGAPLUS parser (this in addition to the Questprobe series, which is also scheduled for the Apple and Atari).

Also on the list of soon-to-come titles is "Buckeroo Banzai", an adventure based on the movie of the same name. This will have graphics, but Scott didn't say if it would also have the new parser.

One member noted that, after Adventure -12 (Golden Voyage), Scott had not written a new game for a long time. He asked if Scott would be writing any new ones, and received this reply: "It was a very busy time running and managing Adventure International! We grew from a $0 per year company to a multi-million dollar per year company in only a couple of years. But now I'm back to my love Adventure writing once again!".

One interesting fact that came out during the conference is that Scott doesn't play other adventure games. When someone asked him to comment on Infocom and other games, Scott remarked "The only Infocom I played was original Zork on a mainframe. I loved it! I've not played anyone else's adventures since, as I don't want to be unduly influenced by someone else's games".

Scott also pointed out a distinction between his numbered adventures and those in the "Other Venture" series. Numbers are reserved for the games written by Scott himself; unnumbered games are written by other authors, many of them freelance. As a matter of fact, AI has on file a database of PBM Diplomacy game statistics. Russell has done a good job of that.

DB: Actually, except for some early misunderstandings by a few PBEM'ers, the postal hobby has been very open to PBEM. It is just a matter of educating them to the facts about PBEM. Russell has done a good job of that.

CGW: Have you been able to attract good players to PBEM?

RS: Oh yes, I am quite pleased by that. We have attracted several present and past PBM'ers to our games. We currently have four publishers in our games (besides myself). We have Doug, who has been voted the Best GM in Dippy by the PBEM hobby. We have the active support of the editor of the official magazine of the PBEM hobby, Rod Walker of DIPLOMACY WORLD. But in addition to all this talent, we also attract a good number of novices who are learning the game quickly and playing very well. It is the best of both worlds: novices and veterans in the trenches together.

DB: Yes, I have been surprised by the number of really good players online.

CGW: What do you see developing for PBEM in the future?

RS: Nothing startling, just continued growth. Barrng unforeseen problems, I expect that a year from now we will see 12-15 games ongoing through CIS and The Source. Electronic mail provides an excellent opportunity for the "serious" gamer to find like-minded people who want to exercise their minds and develop friendships. Diplomacy just happens to be one of those games that is an excellent vehicle to bring those kinds of gamers together, and PBEM pulls in players from all over the country.

DB: I see continued growth and the start of two to three more games on CompuServe this year, once everyone has returned from playing in the summer sun. Russ has some additional plans for special online events in the fall. I see the need to keep in touch with the postal hobby and to draw on their resources and experiences so that we don't repeat the same mistakes that periodically plague the postal hobby. I am convinced that PBEM is the media of the future for Diplomacy. That is going to make the online services exciting places to be for a Diplomacy player.

 LIST OF ONLINE DIPLOMACY VENUES

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The Source — (800) 336-3366 or (703) 734-7500
Delphi — (800) 544-4005 or (617) 491-3393
GameMaster — (312) 328-9009
Modem Numbers:
Wordworks BBS — (914) 723-5275
Crystal Castle BBS — (313) 856-3804
Charlotte Apple Computer Club BBS — (704) 527-6999

Feel free to contact me for additional information about telo-gaming. Write to me on CompuServe at 76703,657 or via U.S. Mail to:

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Long Beach, CA 90803

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backup of S to B1. Then immediately choose backup again and backup B2 FROM B1. Besides giving an extra measure of safety, this extra backup provides the link we need to resurrect characters without risk, money or aging. Let's look at some examples....

The first one is the adventure which finishes like the one described at the beginning of this article. You've taken a group through an adventure, made some significant gains, but lost a character or two. We now have a method to insure that at worst you'll have characters from the last backup. Never again will you need to bring in novice characters unless you want to do so. Go to the Training Grounds and call up each of the dead characters and delete them. Then leave the game and call up the Utilities Menu. Choose the transfer option to move copies of the dead players from disk B2 to disk S. We then have a mixed set of characters -- the survivors of the adventure retain their newly won experience and level changes. The fatalities are restored to their status at the start of the adventure. Cautious players can proceed to make backups of this new party in the usual way. Copy S to B1 and then B2 FROM B1.

It sometimes happens that a character you wish to transfer has some items which are now allowed. (Examples include the rod of flame and the blue ribbon.) To recover these characters takes an extra few steps. Start the game and use B2 as your scenario disk. Go to Gilgamesh's and Add these characters. Then examine each one and Drop the items that can't be transferred. (No system is flawless!) Then go to the Utilities Menu and transfer these characters.

A more involved process is necessary for an adventure in which all but one or two characters have been killed. Here we want to save the survivors first. The quickest method is to go to the Utilities menu, choose the Change Name option and insert B2 which contains the old version of the survivor. Change the name of the survivor to something like JUNK1(R). Then use the Transfer Option to move the survivor from his/her spot on disk S to temporary residence on disk B2. Now, we don't care about the data on disk S, so use backup to restore S FROM B1, the normal backup procedure. Use change name again, this time on disk S, to modify the name of the survivor. Finally, use transfer to bring the most recent version of the survivor back to S FROM B2. (Again, cautious players will make a backup of this new version, for should that survivor be lost in the next round, you won't have a copy. This is the major difference between Backup and Transfer in the Utilities menu: backup does nothing to the backup disk while transfer deletes characters from the backup scenario.) When next you play, you can use the Training Grounds to delete the renamed characters. This is why I suggest using names like JUNK1 for the changed names -- you'll have little trouble figuring out who to delete.

These are just two examples of how this backup system can save you hours of play. Try it, and you'll have more hours for deeper dungeon exploring, rather than continually sending novice explorers against Murphy's ghost in order to build up experience. And, perhaps there are ways of using this method on subsequent scenarios.

COMPUTER AS OPPONENT (cont.)

other previously trained computer opponents. After a few dozen games, the computer stops making most dumb mistakes, and after a few hundred games, it can become a formidable opponent. Different computer opponents can be trained to have different playing styles, such as the offense-minded Genghis Khan or the defense-minded Lord Maginot included on the game disk.

Adapting to the opponent’s playing style also is a feature of the solitary program in Dan Bunten's COMPUTER QUARTERBACK by SSI. The technique used is basically to observe tendencies in play selections in certain situations, much as coaches do in scouting their team's next opponents.

Other Solitaire Features

One of the best personalities in a solitary opponent is Monty of Ritam's MONTY PLAYS MONOPOLY and MONTY PLAYS SCRABBLE. He also has a top skill level in Scrabble which is a challenge for just about anyone.

The ability to play both sides in a game is a useful feature, as is the ability to have the computer take over command of some of your own subordinate units. The SSI game COMBAT LEADER was a pioneer in the ability for players to take over almost any level of command, in addition to playing the enemy. If you want to command a tank or rifle platoon, and let the computer handle the rest of the company, you are free to do so. Only, don't be surprised if the computer sends around vehicles and orders your men to climb aboard just when you least expect it!

The Future

The ability of computers as gaming opponents is definitely on a steep upward trend at the moment. This is due to a combination of better programming, more attention to this aspect of the game, increased use of assembly language, and increased memory availability. A good barometer of the rate of progress is in microcomputer chess, where it has been true for some time now that the best programs of a year earlier are easy victims for the latest efforts. The three Hayden programs Sargon I, II and III are good examples of this rapid improvement.

In wargaming, more attention is being given to improving the computer's ability as a solitary opponent in most of the newer games. Some games, such as the Atari version of Eastern Front 1941, are coming out with new versions which have improvements in the solitary part of the program. A key element to improving solitary performance is giving more attention to this area in the initial game design. Many designers leave the solitary portion of the program to do last, figuring that they will pick up better ideas on how to have the computer play the game after they have played it against a human a few times themselves. Then, in the time crunch of getting the program completed, there is often insufficient time to really work on improving the computer's playing ability. But, if solitary play is given the proper amount of attention in the overall game design, there is no reason why your home computer can't be both an entertaining and a formidable opponent in your favorite wargame of the future.
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LORDLINGS (cont.)

ultimately become the Lord of the Realm. You control your shire, in a manner similar to that of a feudal lord, with taxation from the peasants in the area being your primary means of support. Your army represents your main element of control in the game.

LOY is played on a grid map 14x14. The grid is divided into four shires of 7x7. At the beginning of the game you can request changes in the computer generated setup (i.e. more trees and/or mountains). The computer then generates the grid (thus each game is different). Each shire is represented in hi-res graphics that resemble a chessboard, but the screen only represents one shire at a time. There will be one castle per shire where the Lord and Necromancer reside at the start. As your men begin to travel in the other shires, you will catch glimpses of the other shires, but you will only be shown parts that would be visible to your troops at ground level. You will also not see enemy troops or their movement unless it is within sight of your own troops. Movements of troops are also affected by the terrain.

You begin the game with 5000 peasants in your home shire. Every peasant you control contributes one gold piece to your treasury every turn. Control of these peasants in your home shire is considered automatic unless there are enemy units in the same square.

Each turn is divided into 6 phases. They are:

1) Necromancer—Here you are allowed to cast spells. For example, you can create fog, a storm, or a dragon. Or you can cast a variety of combat or transportation spells.

2) Treasury—During this phase you spend your money. Besides buying spells, you can hire knights and men-at-arms to increase the size of your armies. You can also give money back to the peasants to avoid discontent and uprising. This is not mandatory, but your shire esteem is computed each turn by your donations. A very negative number (little or no donations) can have a detrimental effect.

3) Deployment—When you first buy troops, they are garrisoned in the castle. This phase allows you to setup your armies, give them number designations, and start them on their way.

4) Movement—Units, other than those deployed this turn, are now moved.

5) Combat—Any battles caused by your movements are determined at this time. You will observe each battle as it is fought.

6) Options—If you wish you can send a secret message to one of your opponents in order to form an alliance against another opponent or to try to buy him off.

You can also have a map of the shire printed, yes that's right, printed along with a roster of your armies. This is a big plus, and something that more games should consider.

Computer controlled shires tend to gang up on human controlled shires.

The initial forays into your shire are typically small armies that are either scouting or trying to control peasants. You first should send out armies of 50 men-at-arms each to guard your borders and attack during these first encounters. While this is going on, build up a large army and send this through your lines into one of the other shires. As you conquer new territory, leave behind one unit armies to control the peasants ad increase your taxation money. Use the money to build up your supply of knights and transport them by spell to your large unit situated next to the enemies castle. With this much support you should be able to conquer the shire.

While LOY has used a fresh approach to this type of game, I was frustrated by the long wait while the computer players did their moving. The game would be more enjoyable if a way around this could be found.

The graphic presentation of the game is excellent and overall I found the game enjoyable. There are enough alternatives and actions in this game to continue to make it interesting to play over and over again.
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The complex interactions between air and naval operations which characterized this period are faithfully presented in the style only Roger Keating's swift and precise machine coding can reproduce. Driven by a simple to use order menu, the game systems encourage players to concentrate upon the developing configuration; not upon the game mechanics necessary to implement their strategic decisions.

'Carriers At War' is an exacting historical simulation, a programming masterpiece and, above all, a delight to play. BUT THAT'S NOT ALL... Every creative gamer with even a passing interest in the Pacific War will appreciate the comprehensive GAME DESIGN KIT which complements the historical scenarios. You can use this kit to create simple or complex variations to the historical scenarios... or you can create entirely new scenarios set in any theatre of WWII. At your disposal for each scenario are... a map of the Pacific by 72 hex-grid at 20 nautical miles per hex which reproduces an area in excess of 3 million square miles... 63 individual aircraft types... 127 air squadrons which can accommodate over 4000 aircraft... 24 land bases... 63 ship classes... 48 task groups into which are allocated up to 32 carriers and 215 other ships... 2 land and 4 naval command positions per side... detailed weather creation and forecasting routines... national doctrine and scenario briefing routines... You really can do it yourself. To prove it, and to show how easy it is to use, the design routines are graphically illustrated with an entirely new scenario recreating the Japanese carrier raid on Ceylon, April 1942.

Available August 1984 for the Apple II Family (64K) and the Commodore 64 only $50.00 at all good software and game retailers or direct from Strategic Studies Group, 336 Pitt St., Sydney 2000 Australia - (02) 264-7560. Customers in the United States can send their cheque or money order to Strategic Studies Group (US), 1747 Orleans Ct., Walnut Creek, Ca. 94598.
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FOR ALL SSI GAMES, WRITE FOR YOUR FREE COPY OF OUR COLOR CATALOG.
There were 358 RIDs turned in by press time for this issue.

Newly rated games and updated game ratings are listed with bold type in the table on page 46. The breakdown by machine was: Atari — 44%; Apple — 40%; C-64 — 15%.

GAME RATINGS

The table on page 46 includes games evaluated by our readers. For a game to be included in this listing it must first have been offered for rating in our regular RID rating system. Games offered for evaluation are those covered in the magazine and/or those having a good sales record during the time of evaluation. Once offered for evaluation, the game must have been evaluated by a sufficient number of readers to be included in the results. Any game not evaluated by at least 10% of the respondents was not included in the results.

Games were rated on a scale of 1 (terrible) to 9 (outstanding). Respondents were asked to consider such things as PRESENTATION (graphics, sound, packaging, documentation); GAME DESIGN (design, playability, interesting?); LIFE (does the game wear well?)

Several people have asked about games that are offered for ratings more than once over the course of several issues. We usually re-rate the top ten each time (and sometimes other games as well). Please rate the game each time we ask (not just the first time you notice it in the R.I.D.).

RID #16 (Use card provided)

On this page a number of games and articles are listed for evaluation. Please take time to evaluate these games and articles. Use the guidelines above for game evaluation. Leave blank any game which you have not played enough to have formed an opinion.

Please rate articles on the basis of the article itself, not your opinion of the game being reviewed. Enter a zero for any article that does not interest you.

PLEASE MAIL RID #16 CARD BEFORE NOVEMBER 15, 1984.

GAMES

1. Seven Cities of Gold(EA)
2. M.U.L.E.(EA)
3. One on One(EA)
4. War In Russia(EA)
5. Ultima III(Origin)
6. Fighter Command(SSI)
7. Archon(EA)
8. Wizardry(Sir-tech)
9. Summer Games(Epyx)
10. Lode Runner(Broderbund)
11. Seastalker(Infocom)
12. Sundog(FTL)

34. What computer do you own?
   1 = Apple;
   2 = Atari;
   3 = C64;
   4 = IBMPC;
   5 = Other(Please specify)

35. Do you own a disk drive? Enter Y or N.
36. Do you own a modem? Enter Y or N.
37. If the answer to #37 is NO, do you plan to buy a modem in the next year?
38. What is your Education level?
   1 = Still in high school or grade school
   2 = High School Graduate
   3 = College graduate
   4 = Some college work
   5 = Some graduate level work
   6 = Master's Degree
   7 = Doctoral Degree
39. Which of the following best describes your occupation?
   1 = Student
   2 = Programmer/Analyst
   3 = Professional
   4 = Engineer/Scientist/Technician
   5 = Educator
   6 = Administrative
   7 = Marketing
   8 = Clerical
   9 = Other (Please specify)
40. Do you use microcomputers in your job? Enter Y or N.

Use A,B,C area for letters to the editor. Please give name and home town if writing a letter.
| 7.72 | Seven Cities of Gold | Electronic Arts | 6.81 | Championship Golf | Hayden |
| 7.65 | M.U.L.E. | Electronic Arts | 6.81 | Chess 7.0 | Odesta |
| 7.39 | One On One | Electronic Arts | 6.81 | Ultima II | Sierra On-Line |
| 7.33 | War In Russia | SSI | 6.77 | Galactic Adventures | SSI |
| 7.29 | Ultima III | Origin | 6.75 | Reach for the Stars | SSG |
| 7.26 | Fighter Command | SSI | 6.73 | Star Maze | Sir-tech |
| 7.18 | Archon I | Electronic Arts | 6.71 | Broadsides | SSI |
| 7.11 | Wizardry | Sir-tech | 6.70 | Knights of the Desert | SSI |
| 7.11 | Summer Games | Epyx | 6.70 | Astro Chase | First Star |
| 7.10 | Lode Runner | Broderbund | 6.66 | Napoleon’s Campaigns | SSI |
| 7.09 | Legacy of Llygymyn | Sir-tech | 6.66 | Eastern Front (2nd ed.) | Atari |
| 7.07 | Knight of Diamonds | SSI | 6.65 | Murder on the Zinderneuf | Electronic Arts |
| 7.05 | The Cosmic Balance | Synapse | 6.61 | Witness | Infocom |
| 7.04 | Blue Max | Electronic Arts | 6.59 | Robotwar | Muse |
| 7.04 | Pinball Construction | Broderbund | 6.58 | Suspended | Infocom |
| 7.03 | Choplifter! | SSI | 6.58 | David’s Midnight Magic | Broderbund |
| 7.01 | Carrier Force | SSI | 6.54 | Bomb Alley | SSI |
| 7.00 | Guadalcanal Campaign | SSI | 6.54 | Ultima I | Cal Pacific |
| 7.00 | Music Construction | Electronic Arts | 6.50 | Fifth Eskadra | Infocom |
| 7.00 | North Atlantic 1986 | SSI | 6.50 | Jumpman | Epox |
| 7.00 | Operation Whirlwind | Broderbund | 6.47 | Epidemic | SSI |
| 6.98 | Southern Command | SSI | 6.46 | Ringside Seat | SSI |
| 6.97 | Olympic Decathlon | Microsoft | 6.45 | Soloflight | Microprose |
| 6.96 | Geopolitique | SSI | 6.44 | Legionnaire | Avalon Hill |
| 6.94 | Shattered Alliance | SSI | 6.43 | Under Southern Skies | Avalon Hill |
| 6.93 | Combat Leader | SSI | 6.41 | Mig Alley Ace | Microprose |
| 6.93 | Galactic Gladiators | SSI | 6.33 | Grey Seas, Grey Skies | Sim. Canada |
| 6.92 | Infield | Infocom | 6.33 | Starbowl Football | Gamestar |
| 6.92 | Starcross | Infocom | 6.29 | Paris In Danger | Avalon Hill |
| 6.92 | The Quest | Infocom | 6.28 | Temple of Apshai | Epox |
| 6.91 | Castle Wolfenstein | Penguin | 6.27 | Mask of Sun | Ultra Soft |
| 6.91 | Deadline | Infocom | 6.21 | Crush, Crumble, Chomp | Epox |
| 6.89 | Sorcerer | Infocom | 6.19 | NATO Commander | Microprose |
| 6.88 | Cartels & Cutthroats | SSI | 6.17 | Fortress | SSI |
| 6.87 | Planetfall | Infocom | 6.17 | Frogger | Sierra On-Line |
| 6.87 | Computer Baseball | SSI | 6.07 | Old Ironsides | Xerox |
| 6.86 | Pursuit of Graf Spee | SSI | 6.02 | Way Out | Sirius |
| 6.85 | Flight Simulator II | SubLogic | 6.00 | Cosmic Balance II | SSI |
| 6.85 | Excalibur | Atari | 6.00 | Empire of Overmind | Avalon Hill |
| 6.84 | Battle for Normandy | SSI | 6.00 | Tactical Armor Command | Avalon Hill |
| 6.82 | Computer Ambush | SSI | 5.92 | Time Zone | Sierra On-Line |
| 6.82 | Cytron Masters | SSI | 5.84 | Close Assault | Avalon Hill |
| 6.82 | Germany 1985 | SSI | 5.77 | Torpedo Fire | SSI |
| 6.82 | Quethron | SSI | 5.76 | President Elect | SSI |
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For one or two players; playing time from 1 to 5 hours. Complexity Level: 7 (on a scale of 1 [easy] to 10 [hard]).

Gulf Strike is ready to run on your Atari® Home Computer system, with 48K memory, one disk drive and one joystick controller. Available for $30.00 at leading computer and hobby stores everywhere, or call toll free: 1 (800) 638-9292 for more information. Ask for operator G.

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